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STUMPP & WALTER CO.'S SEED ANNUAL

1928



STUMPP & WALTER CO.
30-32 BARCLAY STREET
NEW YORK CITY

FREE DELIVERY IN THE UNITED STATES

When cash accompanies your order, we deliver, free of charge, to your railroad station or your post office, all lawn-seed mixtures, vegetable seeds (except beans, corn and peas when ordered alone), flower seeds, cannas, gladiolius, dahlias, lilies, and books. We also deliver fertilizers in original 100-pound sacks or over within 100 miles of our New York store, **when cash is sent with order,** except when otherwise stated in this catalogue. When we prepay delivery charges, we ship by mail, express, or freight, at our option.

The customer pays transportation on all merchandise which is billed and charged through our Accounting Department, and on a few items, whether a prepaid order or a charge order, the weight or bulk of which is large in relation to value; these are beans, corn, and peas when ordered alone; vegetable roots—rhubarb, witloof, and potatoes; field seeds—corn, clover, cereals, and grass seeds in separate varieties; live plants—roses, peonies, climbers, vines, fruit trees, shrubs, and stolons except where noted; insecticides, fungicides, implements, and garden supplies, except where we offer to prepay.

We make no charge for cartage to steamship docks, railroad stations, or express offices in Greater New York.

FREE PACKING. We make no charge for cases or packing for domestic shipments, only for cotton and burlap bags. These we invoice at cost and make full allowance for when returned, prepaid, in good condition. Sender's name and address must be marked on each package.

Business Rules and Suggestions to Customers

SEND MAIL TO NEW YORK. We ask that mail orders, and correspondence be sent to our New York address.

PLEASE USE THE ORDER SHEETS. Also keep a copy of your list, and, above all, do not omit your name and address. Numerous orders reach us every season without these important particulars.

ORDER EARLY. It is difficult for us to serve you as promptly as we wish when we receive a very large number of rush orders just prior to planting-time. Will you not help us by giving us your order **early?** We will appreciate the favor indeed, and you will gain too: by having the goods on hand you will be saved possible delay and be able to take advantage of early opportunities for planting.

ERRORS. Ordering early helps to prevent errors. Our order-filling system calls for complete rechecking by efficient supervisors; customers may be assured of full weight and correct count. We believe we have reduced errors to the minimum, yet should mistakes occur, our patrons may rely upon us to rectify them promptly.

COMPLAINTS. These will always be adjusted to the purchaser's satisfaction, but we ask that we be notified within 5 days of receipt of goods. We cannot consider complaints made after this nor can we accept responsibility for crop failures.

PLANT ORDERS. Kindly use the special order-sheet for plants to be found at the end of this book. We ship trees, shrubs, roses, etc., at the correct date for planting, which may be some time after your order reaches us. When the plants arrive, unpack them at once and water them. They should be "heeled in," that is, be planted temporarily, or should have some soil placed around their roots if you are not ready to use them at once.

IF ANYTHING IS MISSING when you unpack your goods, do not think we have necessarily made an error. Look first for a memorandum, either enclosed with your order or sent by mail, telling you that some items of the order are to follow later; these may be goods which are not ready, or not suitable for using right away. Onion sets, trees, shrubs, roses, and plants generally are not shipped until it is the proper time to plant them. We sometimes enclose small packages in larger bags of seed or fertilizer; please examine these before reporting shortage.

NON-WARRANTY. We, Stumpp & Walter Co., give no warranty, express or implied, as to description, quality, productiveness or any other matter of any seeds, bulbs, or plants we send out, and will not be responsible for the crop. As bearing on the above, the following remarks, taken from a recent Bulletin of the U. S. Department of Agriculture, are interesting: "Without attempting to discuss the arguments for the seedsman's disclaimer pro and con, the fact remains that reputable seedsmen stand back of their seeds and do not knowingly and willfully sell seeds that are unfit for planting purposes."

PRICES. Our prices are net, with no discounts, and they are subject to change without notice.

REMITTANCES. These should be made by check, bank draft, post office order, or express money order; small sums may be sent in postage stamps. Do not send currency unless by registered letter.

C. O. D. We are always glad to supply seeds, bulbs, fertilizers, or insecticides to be paid for on delivery, the purchaser also paying transportation charges. We do not send shrubs, roots, or other perishable goods C. O. D.

CHARGE ACCOUNTS. We will be pleased to open charge accounts to responsible parties on receipt of the usual trade references; in this case our invoices are payable within 30 days net—no discount.

VISIT OUR BRANCH STORES. For your convenience we maintain branch stores in Baltimore, Md., White Plains, N. Y., and Newark, N. J. When you shop personally we ask that you patronize our store which is nearest to you, but please send mail orders, inquiries, and correspondence to our Barclay Street, N. Y., address.

CANADIAN SHIPMENTS. In sending orders for **bulbs or nursery stock,** a permit number should first be obtained by our Canadian friends from the Secretary, Destructive Insect and Pest Act Advisory Board, Ottawa, and forwarded to us so that shipment may be made without delay. There is no charge for this permit, nor is there any difficulty in obtaining it. Note especially that this is not required for seeds, fertilizers, or implements. We charge postage on Canadian shipments; import duties also are payable by the purchaser.

EXPORT DEPARTMENT. Shipments to distant points form an important feature of our business, and we are well equipped to take care of these orders through our Export Department, which is dedicated to serving our clients in foreign lands. Purchasers may rely upon proper packing, prompt delivery to steamers, and correct preparation of the necessary documents. Transportation and special packing will be charged extra at cost.

EMPLOYMENT REGISTER for Superintendents, Gardeners, Greenkeepers, Groundsmen, Poultrymen. We always have on our books the names of men seeking positions, most of whom are known personally to our representatives, and we will be glad to put them in touch with employers seeking help of this kind.

ADVISORY SERVICE. Every mail brings us problems connected with gardening, farming, and lawn-keeping. It is always a pleasure to be of help in solving these, and we take pains to answer these inquiries promptly and fully. In the development of estates or in the seeding of large areas, you may wish to confer with a technical representative on the ground; generally we can arrange this for a nominal fee that would be no more than the actual cost of transportation to and from New York.

CATALOGUES ISSUED

These are mailed regularly to customers, and prospective customers are invited to write for them

January 1. GARDEN ANNUAL, 180 pages of garden information, many colored plates, and hundreds of half-tone illustrations.

February 1. GOLF TURF, deals with the production and maintenance of golf courses, polo fields, and large lawns. 64 pages, many illustrations.

May 1. MIDSUMMER AND ADVANCE BULB CATALOGUE. Merchandise for summer planting, together with bulbs at favorable rates for special import orders.

September 1. BULB CATALOGUE, describing the newest in Tulips, Hyacinths, Narcissi. Offering American-grown stock, also bulbs from Holland, France, Bermuda, and Japan.

GEORGE G. STUMPP, *President*
JULIAN H. WALTER, *Treasurer*
THOMAS F. KEARNEY, *Asst. Treas.*
WILLIAM A. SPERLING, *Secretary*

New York Telephones: CORTLANDT { 4830 4831 / 4832 4833

Stumpp & Walter Co

30-32 Barclay and 40 Vesey Sts., New York City

BRANCH STORES: Baltimore, Md., White Plains, N. Y., Newark, N. J.

OCT 15
U. S. Department of Agriculture

Thirty Years and the Stumpp & Walter Co



At 50 Barclay Street, New York, the Stumpp & Walter Co. opened its first seed store in 1897, employing two men. The firm now operates five stores, warehouses, extensive bulb-farms and trial-grounds, with over 150 men and women on its payroll.

1897-1927

The Quality Idea

THIRTY YEARS AGO, three young men had an idea. Put into words, it was:

> *"A garden or a farm is planted for results; to ensure results the planter needs the best Seeds and Supplies. Using the utmost care* WE WILL SUPPLY THE BEST WE KNOW, *promptly and courteously—High Quality above all considerations."*

The three young men were George G. Stumpp, Julian H. Walter, and Henry Eicke. Entering into partnership, they leased a store and basement at 50 Barclay Street, in New York, for the sale of their High Quality seeds. The business had barely started when Henry Eicke died and William A. Sperling took his place as secretary; later, Thomas F. Kearney was appointed assistant treasurer.



The present headquarters of the Stumpp & Walter Co., at 30–32 Barclay Street, New York. Here is one of the largest seed stores in the country, measuring 200 feet from front to rear, with a width of 50 feet. Four floors above the street level and two beneath are occupied by the offices and various departments of the Company.

Copyright, 1928, by Stumpp & Walter Co.

PLEASE TURN

Thirty Years and the Stumpp & Walter Co.



The Stumpp & Walter Co.'s new store at 40 Vesey St., New York City. Seven floors of this building are used for the cleaning, grading, testing, and packing of seeds.

CONTINUED EXPANSION

THE High Quality idea immediately met favor with discriminating cultivators, and from the outset the story of the Stumpp & Walter Co. is one of continued expansion. Their small store and basement, measuring but 25 by 100 feet, soon proved inadequate, and in 1902 the firm leased the six additional floors, occupying the entire building at 50 Barclay Street, New York City.



Interior of the headquarters seed store of the Stumpp & Walter Co. at 30–32 Barclay Street, New York. Varying with the seasons, a complete supply of High Quality Seeds, Bulbs, and Implements is always on display. Recently a connecting bridge has been built to join this to the store at 40 Vesey Street, the resulting total floor-space of 8,000 square feet being one of the largest seed stores in the country.

Twelve years later, the expansion of the business again called for more room, and, in 1913, the double building at 30–32 Barclay Street was leased, affording twice the space. The Stumpp & Walter Co. now own this building, having purchased it a few years ago; it is the firm's headquarters at the present time.



Green pastures, mammoth hay crops, swaying fields of golden grain, smooth soft lawns—the seeds of all are here, in great variety, but unvarying in their High Quality, in the Field-Seed Department at 30–32 Barclay Street, New York.

AGAIN, in 1923, more room was needed, and the Company acquired two buildings directly at their back, 40 and 42 Vesey Street, once more doubling their accommodations. Structural changes have recently been made to connect the Barclay Street and Vesey Street premises. The resulting display and service space represents one of the largest seed stores in the country; the combined store has a total area of 8,000 square feet.

The year 1923 saw the opening of a Branch Seed Store of the Stumpp & Walter Co. in Baltimore, where, at 204–206 North Eutaw Street, a four-floor building, 35 by 75 feet, is the firm's headquarters south of the Mason and Dixon's line, and a complete supply of the Stumpp & Walter Co. High Quality merchandise is maintained there. The support which this branch has received from patrons has been most gratifying.



Implements to meet the requirements of the most exacting gardeners are to be found at the Barclay Street, New York, headquarters of the Stumpp & Walter Co. A complete stock of these is available at all seasons of the year.



Acres of beets and carrots, bounteous fields of beans, gardens full of succulent vegetables and beautiful flowers are visualized when one walks through the aisles of the Garden-Seed Department at 30–32 Barclay Street, New York.

Thirty Years and the Stumpp & Walter Co.



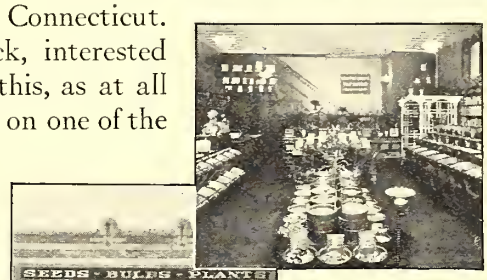
Construction work was recently carried out to connect the Barclay Street and Vesey Street Stores of the Stumpp & Walter Co., the combination making an exceptionally large area for the display of merchandise and the prompt attention to purchasers.

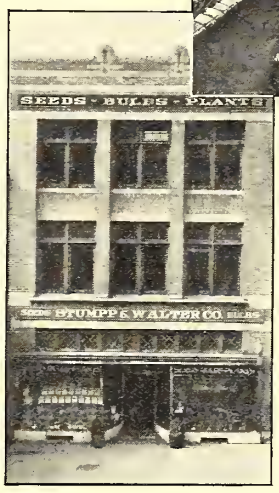
MORE BRANCH SEED STORES

IN the spring of 1927, a Stumpp & Walter Co.'s Seed Store was opened at 102–104 Mamaroneck Avenue, White Plains, N. Y., to take care of the many customers in Westchester County and western Connecticut. High Quality and quick, interested service are featured at this, as at all Stumpp & Walter Co.'s establishments. Centrally located on one of the principal streets, the White Plains branch is easy of access and automobile parking is simple.

The summer of 1927 saw the opening of the Newark, N. J., Branch Seed Store, at 29–31 Central Avenue, where Halsey Street intersects it. Here a building 35 by 75 feet, in the down-town shopping district, is stocked with the well-known Stumpp & Walter Co.'s Seeds, Bulbs, and Garden Implements; it aims to take care of the needs of patrons residing in metropolitan New Jersey.

There are thus five stores in which Stumpp & Walter Co.'s Seeds may be purchased personally. The Company's business by mail is extensive and growing also; satisfied customers are in every state, in Canada and in Central and South America. Stumpp & Walter Co.'s goods, too, are shipped regularly to users in Europe.





Stumpp & Walter Co.'s Branch Seed Store at Baltimore, Md. Here is a corner store near the market on North Eutaw and Clay Streets, where an interesting display of the celebrated High Quality merchandise is always to be seen. Above shows the inside of this well-equipped store.





The Stumpp & Walter Co.'s Branch Seed Store at White Plains, N.Y., on the corner of Mamaroneck Avenue and Quarropas Street. A representative stock of High Quality merchandise is always on hand here. Both exterior and interior views of this modern store are shown.

The Stumpp & Walter Co.'s Branch Seed Store at Newark, N.J., on the corner of Central Avenue and Halsey Street. Customers who reside in metropolitan New Jersey are assured of prompt service as a result of the establishment of this store.





The upper right photograph shows the neat arrangement of the interior.

PLEASE TURN

Thirty Years and the Stumpp & Walter Co.



Stolons of Creeping Bent Grass are grown on the Stumpp & Walter Co.'s grounds at Farmingdale, L. I. The method of producing lawns with these stolons instead of with seeds is interesting, and is described in the Company's catalogues.



Holland in America! The United States may no longer import her Narcissus bulbs but must grow her own, says the Federal Horticultural Board. The Stumpp & Walter Co.'s Bulb-Farm at Islip, Long Island, is one of the first to be started in this new industry. Here over a million bulbs are being produced, sixty different kinds have to be segregated, and some of the rarer sorts are valued at over $10 per bulb.

EXPERIMENTAL GROUNDS

TO maintain the High Quality standard, it is necessary for the Stumpp & Walter Co. to grow in a garden a representative sample of each of the seeds and plants that they sell. These samples are given the same kind of cultivation that they would receive in an average customer's garden. By growing them, the Company not only makes certain that their merchandise is good, but by trying seeds from other sources, they are able to find out how good others are, too. These experiments are carried out by a staff of experts on the Stumpp & Walter Co.'s trial-grounds at Farmingdale and Islip, Long Island, where more than 100 acres are under cultivation.

Also on this land are produced some of the seeds and many of the plants and bulbs for which this House is noted. A number of foreign-grown bulbs, hitherto imported in large numbers, are denied entry into the United States for fear that they may bring with them diseases and pests of various kinds. On the Stumpp & Walter Co.'s Long Island farms are now grown Hardy Narcissus, Gladiolus, and other bulbs. The more tender sorts of Narcissus, the Paper-White variety particularly, are grown at Yamasee, S. C. In 1897, the Stumpp & Walter Co. employed but two men; in April, 1927, the staff consisted of 150 men and women, and it increases year by year.



Part of the Stumpp & Walter Co's. trial-grounds at Farmingdale, Long Island. Under a system of overhead irrigation, experimental work is carried on with thousands of vegetables and flowers every year. Only in this way can a High Quality standard be maintained.



Gladiolus is one of the important crops at the Stumpp & Walter Co's. grounds at Farmingdale, Long Island. Here High Quality corms, running into millions, are produced annually; and some of the kinds are very rare, many of the corms being actually worth their weight in gold.

High Quality Seeds Are Seeds with a Lineage

On the lawn, two fluffy little pups are romping, rolling each other ever, pretending to growl, feigning to bite. Call to them and they stop their play, puzzled little round eyes gaze up at you, heads whimsically awry. They look alike, but the owner of the one little cross-breed will have diffieulty in finding a home for him, while the other is worth hundreds of dollars. *He has a Lineage.*

Two settings of eggs: One may be worth a dollar or so, the other is worth, perhaps, twenty dollars, because pedigreed fowl produced it. Both seem identical, *but one has a Lineage.*

Two lots of seeds: They look alike, weigh the same, may grow with equal strength. One has a doubtful ancestry, carelessly grown for those who maintain that fairly good is good enough, but the other lot was saved only from the most desirable plants. Should any plants have proved not up to standard when the seed-crop was growing last year, they were removed before the flowers appeared, so that their inferior seed should not mix with the Choice Seeds. Varieties from which even the mere pollen might have blown onto the crop were removed from the surrounding neighborhood, for fear of spoiling the Good Seeds. Much painstaking care of this sort carried on year by year for generations has produced *Seeds with a Lineage.*

Our 1928 Catalogue lists over 2,500 separate varieties, and we believe they are superior to many offered to the gardening public. It is our aim that every one of these varieties be SEEDS WITH A LINEAGE.

Stumpp & Walter Co. 30-32 Barclay Street NEW YORK CITY

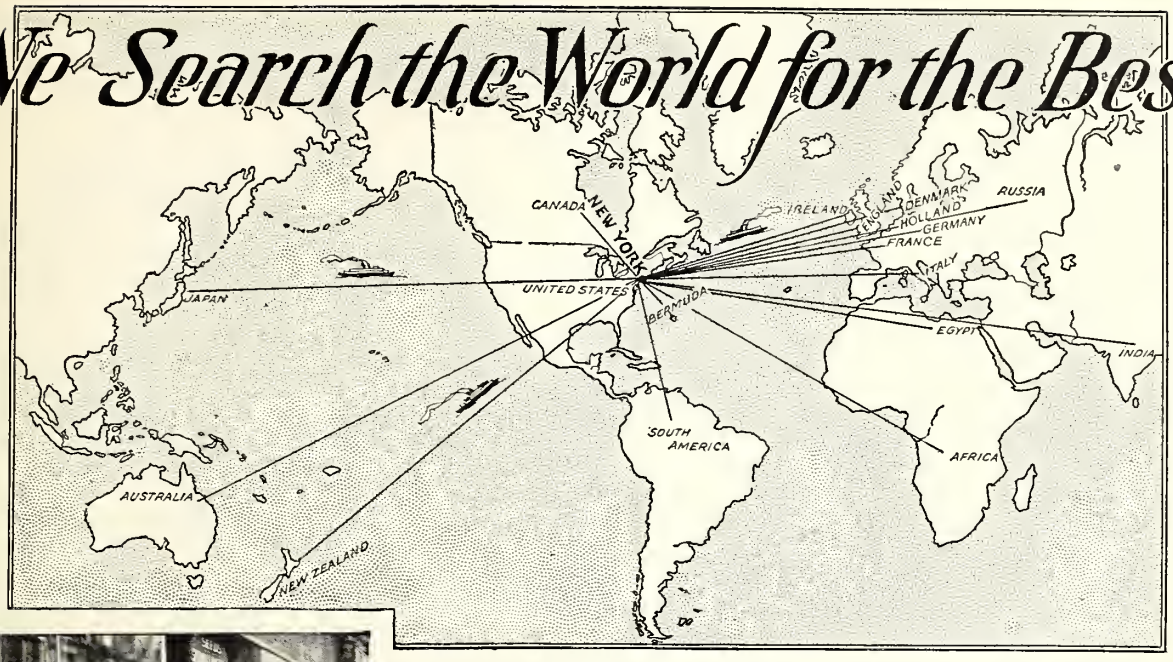
New York Phones: Cortlandt 4830, 4831, 4832, 4833

GEORGE G. STUMPP, President
JULIAN H. WALTER, Treasurer
THOMAS F. KEARNEY, Assistant Treasurer
WILLIAM A. SPERLING, Secretary

BRANCH STORES
40 Vesey Street, NEW YORK CITY.
204-206 North Eutaw St., BALTIMORE, MD. (Phone: Calvert 0060).
102-104 Mamaroneck Ave., WHITE PLAINS, N.Y. (Phone: White Plains 4086-J).
29-31 Central Ave. at Halsey St., NEWARK, N. J. (Phone: Mulberry 5595).

EXPERIMENTAL GROUNDS AND FARMS: FARMINGDALE AND ISLIP, LONG ISLAND

We Search the World for the Best





Selected for quality by the most dependable growers in the world, merchandise reaches our establishment from the ends of the earth. Our stores, warehouses, and offices occupy a total of 85,000 square feet, and comprise, we believe, the largest area in the neighborhood of New York devoted to the supply of seeds, bulbs, plants, fertilizers, implements and insecticides.

- Vegetable Seeds from United States, Canada, France, Holland, Denmark, England, Italy.
- Flower Seeds from United States, France, Italy, Germany, India.
- Lawn Seeds from United States, Germany, Holland, Australia, New Zealand, Ireland, England, and Canada.
- Clovers, Field Seeds from United States, South America, Africa, and Canada.
- Cotton from United States, Egypt.
- Jute from India.
- Sugar Beet from United States, Germany, Russia.
- Bulbs from United States, Holland, France, Japan, Bermuda.

GEORGE G. STUMPP, President
JULIAN H. WALTER, Treasurer
THOMAS F. KEARNEY, Asst. Treas.
WILLIAM A. SPERLING, Secretary

THIS IS OUR 30th
ANNUAL CATALOGUE

Serving the Gardener and Farmer for thirty years, we have always kept before us the importance of High Quality. Seeds of High Quality are those with a known pedigree, that have been produced under conditions of painstaking care, harvested properly, and proved to be of strong vitality.

That we have succeeded in our efforts to furnish Seeds of this High Quality during the years we have been in business is shown by the very gratifying increase which our business has shown year by year. We have been favored, too, with remarkably loyal support on the part of our customers, many of whom started to trade with us thirty years ago and are with us yet. To old and new customers alike we are sincerely grateful.



ABOVE — *Stumpp & Walter Co.'s Seeds are tested to make sure they grow.*

In order better to serve our increasing clientele, our thirtieth year sees the opening of two additional branches, our establishments now comprising two stores in New York City, one each in Baltimore, Md., White Plains, N. Y., and Newark, N. J., together with our seed-farms and experimental grounds at Farmingdale and our narcissus farms at Islip, L. I.



RIGHT — *Stumpp & Walter Co.'s Seeds are proved for quality at our mammoth trial-grounds on Long Island.*

When in New York, or when within reach of any of our branch stores, we hope you will find time to visit us. We welcome you also to our farms on Long Island, where our annual spring display of tulips, narcissi, and, later in the season, gladiolus, is particularly worth inspection. We suggest that you communicate with us before visiting our grounds, so that you may see them at a time when some one or other of our trial crops is at its best.

Stumpp & Walter Co.

30-32 BARCLAY STREET
NEW YORK CITY

New York Phones: 4830 4831
Cortlandt 4832 4833

BRANCH STORES:
40 Vesey St., New York City
204-206 North Eutaw St., Baltimore, Md. *(Phone: Calvert 0060)*
102-104 Mamaroneck Ave., White Plains, N. Y. *(Phone: White Plains 4086)*
29-31 Central Ave. at Halsey St., Newark, N. J. *(Phone: Mulberry 5595)*

EXPERIMENTAL GROUNDS AND FARMS: Farmingdale and Islip, Long Island

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HOW ABOUT YOUR LAWN?



Staigreen LAWN SEED
BEST ON EARTH

25-Pound *versus* 14-Pound LAWN SEED

Many low-priced Grass Seed mixtures weigh only 14 pounds per bushel. This indicates either the presence of chaff or some of the really good varieties in the rough state, not properly cleansed so as to leave only the vital part and less of the chaff or shell—in other words, so many less seeds to the quart or pound that will germinate and grow real grass.

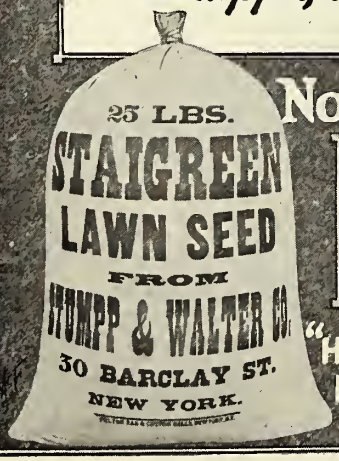
Why Not Buy the Recleaned Kind—

A formula of grasses weighing 25 pounds per bushel, of high germination and purity, permanent in nature, the varieties carefully proportioned so that they will succeed one another in brightness of foliage, with the result that the lawn, even in its first year, will have a bright, rich green color from early spring until covered by snow. Staigreen consists of the purest and choicest varieties of grasses, regardless of high money value. Certain varieties are scarcer in some seasons than others, but the formula from which Staigreen is compounded does not change with the years: it is always the same and always the best.

Stumpp & Walter Co

One Pound will sow a Plot 20 x 20 feet
Sow 100 Pounds to the Acre
Double above quantities when quick results are desired

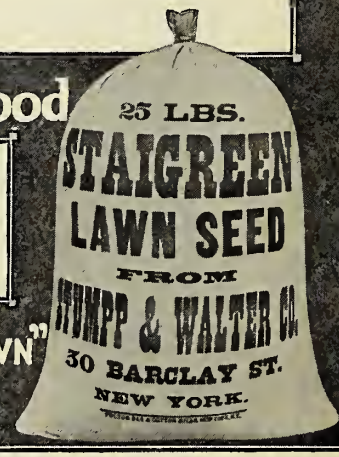
30 and 32 Barclay St.
New York



Not How Cheap, But How Good

DELIVERED ANYWHERE IN UNITED STATES					
Lb. 65c.	2½ lbs.	5 lbs.	12½ lbs.	25 lbs.	100 lbs.
Sifter top container	$1.55	$3.00	$7.25	$14	$55

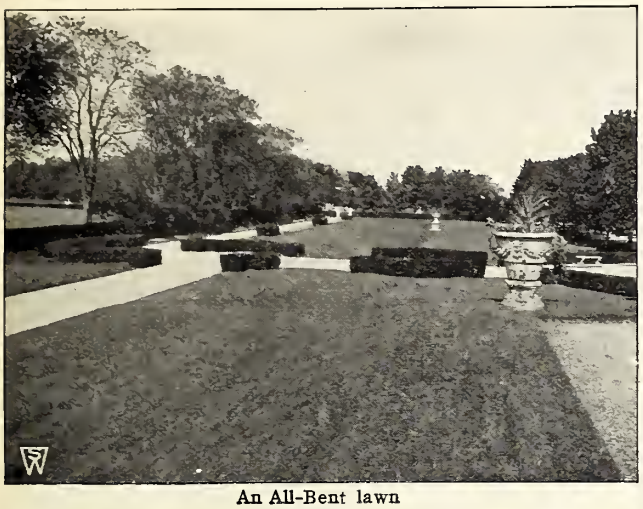
WHEN CASH ACCOMPANIES ORDER



"HOW TO BUILD A PERMANENT LAWN" PAMPHLET FREE IN EVERY BAG

Bent Turf is like a Carpet

FINE, DENSE, EMERALD-GREEN AND VELVET-SOFT



An All-Bent lawn

All Bent Lawn Grass Seed

This is composed of *Agrostis* varieties only, a mixture of the wonderful Bent Grasses with a proportion of high-quality Red Top. In rich soil it will produce a turf much finer in texture than a lawn of the ordinary type, and the creeping character of these grasses causes them to mat together and produce the soft, luxuriant feel of an expensive rug. The turf is a deep, rich green color. For this mixture the soil should be inherently good and should have additional rotted manure worked into it. Several times during the growing season, Urea or sulphate of ammonia, at the rate of ½ounce to the square yard, should be applied to the turf, first mixing the fertilizer with six times its bulk of fine sifted soil. Every spring and autumn, also, 1½ ounces to the square yard of S. & W. Co.'s Emerald Grass Fertilizer should be applied, mixed with six times its bulk of soil. Sow the seed at the rate of 1 pound per 250 square feet or 175 pounds per acre. This is particularly heavy seed, one bushel weighing 30 pounds. **Lb. $1.25, 2½ lbs. $3, 5 lbs. $5.75, 12½ lbs. $13.50, 25 lbs. $26, 100 lbs. $100.** Charges prepaid when cash accompanies order.





Stolons of Creeping Bent, are shown above. They are cut into short lengths as shown on the left, and planted to form a Bent turf.

Two Ways to Produce a Bent Turf

SOW SEED of Our All-Bent Lawn Formula or PLANT STOLONS of Creeping Bent

WHAT ARE BENTS? They are varieties of Agrostis, the dwarfest Grasses in cultivation; they are creeping in habit and they produce a dense mat of the finest silky leaves.

BENT LAWNS REQUIRE good soil adequately fertilized, sunlight, moisture, average care.



Bent makes a smooth turf for the home putting green

Creeping Bent Stolons

Stolons are creeping stems of the living grass

HOW TO USE STOLONS

(1) Growing in the Nurseries of the Stumpp & Walter Co. are rows of Creeping Bent stolons, known to botanists as *Agrostis stolonifera*.

(2) To make a Creeping Bent lawn, first estimate the size it will be in square feet and then purchase one-eighth the area in Creeping Bent stolons. For instance, if your lawn is to be 800 square feet in area, order 100 square feet of the stolons; they cost $25 per 100 square feet. On receipt of your order the required quantity is stripped and sent to you by express.

(3) Immediately the stolons reach you, unpack them, and then shake the earth from them. They will be found to consist mainly of tangled stems, like string. These are the stolons or runners. A stolon or runner of Creeping Bent is able to produce new plants at intervals throughout its length.

(4) The stolons are clipped into pieces about 1½ inches long. Shears are satisfactory for small quantities, but a chaff-cutter is used for large areas.

(5) Spread the clippings evenly on well-manured, fine, smooth earth, and immediately cover them with ½inch of sifted soil.

(6) Water the newly planted lawn daily for two weeks, by which time the young grass should be well through. Many golf greens are planted with stolons of Creeping Bent.

STOLONS or RUNNERS OF CREEPING BENT GRASS

5 square feet $1.75, 100 square feet $25, 1,000 square feet $225

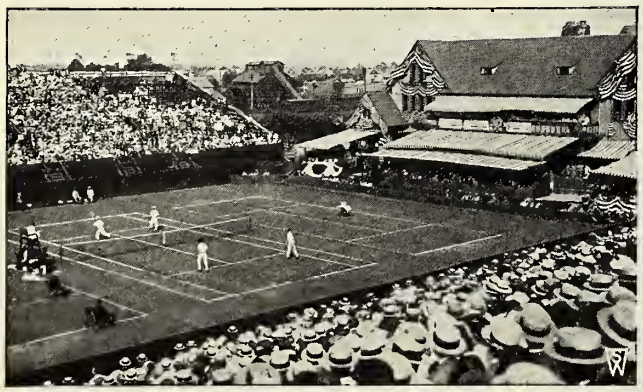
Purchaser pays transportation from our Nurseries. Five square feet will plant a lawn 40 to 50 square feet in area; 100 square feet will plant a lawn 700 to 1,000 square feet in area. Weight of one square foot about one pound.

LAWN SEED FORMULAS



SHADY PLACE FORMULA

There are not many grass varieties which will live and thrive in shade, but we use them in our Shady Place Formula. Usually it is easy to obtain turf under trees when this Formula is used, but in very stubborn cases it may be necessary to remake the lawn every season for several years, proceeding thus: Add lime every autumn at the rate of 1 pound per 20 square feet; fork the land lightly in the spring, and apply Pulverized Sheep Manure, 1 pound per 20 square feet; rake smooth and sow Shady Place Formula Grass Seeds; rake again to cover the seed and either use a roller or flatten with the back of a spade; sow some further seeds to renovate the lawn at the end of summer. Use as a minimum allowance 1 quart of seed for each 15 feet by 15 feet or 5 bushels per acre; sow at half these rates when renovating a lawn, and use double this quantity for quick results. **Qt. 60 cts., 4 qts. $1.90, 8 qts. $3.50, ½bus. $6.25, bus. $12, 10 bus. $115.** Charges prepaid when cash accompanies order.



For Lawn Tennis and Croquet

WEST SIDE TENNIS FORMULA

The turf required for these sports must be firm and yet elastic, fine, and composed of grasses which may be mown closely. Also, it must be one which will stand up well under the localized wear of lawn tennis. This formula is made up of suitable grasses, properly proportioned so as to give an even playing surface throughout the year. It is advisable to sow more seed than the quantity ordinarily used for lawn purposes in order to obtain a playing turf quickly and to crowd out weeds as much as possible; at least one pound for each 150 square feet is advisable on new seeding. Use seed at one-half this rate when renovating an existing tennis court or croquet lawn. **Lb. 70 cts., 2½ lbs. $1.65, 5 lbs. $3.25, 12½ lbs. $7.75, 25 lbs. $15, 100 lbs. $57.50.** Charges prepaid when cash accompanies order.



A Tough Grass for Athletic Fields—Polo, Football, Baseball

HURLINGHAM SPORTS FORMULA

For fine, uniform, hard-wearing, and quickly recuperating turf we find that the formula of grass seeds long used at the famous English polo fields at Hurlingham gives the utmost satisfaction in this country. The grass seeds used are of the highest quality and the strongest germination. Use 200 pounds to the acre. **Lb. 65 cts., 2½ lbs. $1.55, 5 lbs. $3, 12½ lbs. $6.75, 25 lbs. $13, 100 lbs. $50.** Charges prepaid when cash accompanies order.

FOR SPECIAL PURPOSES



For Terraces, Hillsides and Embankments

TERRACE SOD FORMULA

A mixture of grasses that will produce strong, spreading roots; will withstand drought and exposure and thrive on shallow soils.

To Grass a Bank or Terrace. If the slope is gentle, add 1 inch of topsoil and then broadcast S. & W. Co's Emerald Grass Fertilizer at the rate of 5 pounds to each 100 square feet. Rake, and sow Terrace Sod Formula, 1 quart to each 100 square feet. Rake again lightly to cover the seed and make firm with a roller or back of a spade. If the slope is severe, proceed as above, except to sow along with the grass seeds some ordinary seed oats—1 quart of seeds and 1 quart of oats to each 100 square feet. Mow the oats as soon as they are long enough for a mower to cut them, and keep them cut. If the slope is very steep, mix 1 quart of Terrace Sod Formula with two pailfuls of earth. Make notches with a hoe about 9 inches apart, and fill the notches with the mixture. **Qt. 60 cts., 4 qts. $1.90, 8 qts. $3.50, ½bus. $6.25, bus. $12, 10 bus. $115.** Charges prepaid when cash accompanies order.



For Lawns in the South

SOUTHERN LAWN FORMULA

From central Virginia south, the ordinary northern grasses will not thrive permanently, and good results are not likely to follow the use of the customary mixtures. As a result of an intimate knowledge of southern conditions we offer a special formula which we find is highly satisfactory. We advise that two seedings be made, one in spring and one in fall, allowing at each, one quart to each 15 by 15 feet or 5 bushels to the acre. **Qt. 45c., 4 qts. $1.50, 8 qts. $2.75, ½bus. $4.75, bus. $9, 10 bus. $85.** Charges prepaid when cash accompanies order.



For Areas Subject to the Influence of Salt Spray

SEASHORE LAWN FORMULA

The varieties of which this mixture is compounded are selected for their deep rooting qualities, resistance to salt spray and high winds. It is recommended for those situations on the ocean front where difficulty has been experienced in getting a lawn with the usual grass seeds. The soil in the neighborhood of the sea is frequently very poor, and a very good preparation for seed is to apply Pulverized Sheep Manure at the rate of 1 pound to each 10 square feet; rake after applying this manure and then sow seed. One quart of this seed should be sown on an area 15 by 15 feet, or five bushels to the acre. Use one-half of these quantities for renovating; double for quick results. **Qt. 45 cts., 4 qts. $1.50, 8 qts. $2.75, ½bus. $4.75, bus. $9, 10 bus. $85.** Charges prepaid when cash accompanies order.



For Parks, College Grounds, and Other Large Areas

"HIGH-GRADE" LAWN SEED

Our "High-Grade" Grass Seed is composed of fine, recleaned grasses, care being taken to include varieties of high purity and vitality. They are carefully proportioned so that they will succeed one another and give the lawn that much-desired green, velvety appearance through the summer. One quart will sow 15 by 15 feet or five bushels to the acre; use one-half these quantities for renovating old lawns; double quantities for quick results. We advise the use of "High Grade" Lawn Seed on large areas or on lawns where low cost of materials is more important than extreme fineness of turf. **Qt. 45 cts., 4 qts. $1.50, 8 qts. $2.75, ½bus. $4.75, bus. $9, 10 bus. $85.**

Grass Seeds for Golf

EXTREME PURITY NECESSARY.—A club annually spends a large sum for the purpose of removing weeds from greens, tees, and, in some cases, fairways. The seeds from which these weeds spring may be already in the soil, and they further may be washed onto the green, blown onto the green, and deposited there by birds or other agencies. It is obviously unwise to add to these weeds, which ordinarily find their way onto a golf course, by sowing more weed seeds—in other words, by sowing grass seeds which could, by dint of a little more care and trouble, be made freer of weed seeds. No golf club need ever sow seeds which have not been cleaned and recleaned to the highest degree of purity. Such seeds cost a few cents per pound more than commercial stocks, but such a slight extra charge is offset again and again by the saving in the club's labor bill for weeding. Further, you will invariably get *more seeds of the kind you want* in a pound of seed that has been thoroughly recleaned than you will from seeds that have not been so thoroughly purified, because along with the weed seeds, empty husks and other materials are withdrawn by the cleaning. Very often the highest-priced seed is really cheaper (by actual count of seeds) than lower-priced seed.

Putting-Green Formulas

WHY USE BLENDS? You may sow one variety of grass only if you wish; good results are often obtained and some authorities recommend it, but we do not. Rather than seeding with one kind, we prefer the use of several. An established green from a blend of varieties gives a good turf quickly, one that is more uniform through the year and is less likely to suffer badly from extremes of climate or from attacks of fungous disease. The use of many as against single varieties has the practical support of many years' experience.

Recommended for light, dry soils

Standard Putting-Green Formula

This is a blend consisting of imported and domestic grass seeds of *fine* quality—all of high purity and strong germination. The mixture includes German Bent, and Red Fescue, and is a well-balanced one; its use for more than twenty years has proved its reliability. Splendid for light, dry soils. **Lb. 75 cts., 5 lbs. $3.50, 25 lbs. $16, 100 lbs. $60.**

Recommended for well-prepared, rich soils

Special Putting-Green Bent Formula

This is a blend consisting of imported and domestic grass seeds of the *finest* quality—all of the highest purity and strongest germination. We include in the formula an increased proportion of German Bent, however, on account of its wonderful fineness and its suitability for golf. **Lb. 85 cts., 5 lbs. $4, 25 lbs. $18.75, 100 lbs. $70.**

The weight of a measured bushel of the above mixtures is 25 pounds

QUANTITY OF SEED REQUIRED.—There is considerable variation of opinion on this point, but we generally find long-experienced turf-growers lean toward heavy seeding: we have known many cases of disappointment traceable to too light seeding; it is rare to see a case where seed has been sown so thickly that failure has occurred. Use one pound of mixed seeds to each 100 square feet when seeding a new putting-green. It is usual to allow one-half this quantity when applying seed for renovating a worn turf.

"GOLF TURF" is the title of our free book on the problems of the greenkeeper. Chairmen of greens committees and others interested are invited to send for a copy.



Photo: Levick

The Eighteenth Green, new course, Salisbury Golf Links, Salisbury Plains, L. I. (Lannin Realty Co., Inc., owners). Here are now five complete 18-hole golf courses in play. Grass seeds, fertilizers, and implements supplied by the Stumpp & Walter Co.

Grass Seeds for Golf



Beautiful Turf from Tee to Green *Photo: Levick*

Fairgreen Formulas

It is essential that the proper grass varieties be grown on a fairway; very often grasses are used that are not fit to make a proper golf sod. It is essential, too, that only seeds of the best quality be used. When ordering let us know if your soil is sandy, heavy, moist, or dry: we adapt the formula to your conditions so that an even, tough, and lasting turf is secured.

S. & W. Co.'s Fairgreen Formula, Superfine Quality. This mixture contains Bent seed as well as Chewing's New Zealand Fescue, Kentucky Bluegrass, and Superfine Redtop. The weight of a measured bushel is 25 pounds. Use 200 pounds to the acre on new fairways; one-quarter to one-half this quantity for renovating existing turf. **Lb. 65 cts., 5 lbs. $3, 25 lbs. $13, 100 lbs. $50.**

S. & W. Co.'s Fairgreen Formula, Fine Quality. The weight of a measured bushel of this formula is 20 pounds. **Lb. 50 cts., 5 lbs. $2.25, 25 lbs. $10, 100 lbs. $35.**

Remember: All our seeds are of the highest quality, obtained direct from the most reliable sources of supply and are carefully examined as to purity and growth, including tests made for us by leading independent seed-testing stations. We furnish, on request, the percentage of purity and growth.

We are always glad to suggest varieties suited to your soil and climate, to assemble combinations of seed to your specifications, or to supply our own mixtures and tell you the exact percentage of each of the varieties in the formula.

Without obligation, we shall be pleased to send a representative who, from long experience, is qualified to advise regarding grasses and furnish such other information as is necessary for the best results.



No. 11 Green, North Course, Lake Placid Club, N. Y. In the background the Sentinel Range of the Adirondacks. Stumpp & Walter seeds used



At the beautiful Wolf Hollow Golf Club, Delaware Water Gap, Pa. Stumpp & Walter seeds used *Photo: Levick*

Grass Seeds for Golf



At the Westchester-Biltmore Country Club, N. Y. Stumpp and Walter Seeds used

SPECIAL DIVOT FORMULA

Always Keep a Bag in Stock

A blend consisting of (*a*) seeds of fine, strong wearing, *permanent* grasses suitable for fairways and tees, with (*b*) seeds of the quickest growing plants we know that are of a *temporary* nature. The temporary plants grow immediately, and in a day or two you cannot locate the divot; in the course of a few weeks, with cutting, the temporary plants disappear, leaving the permanent grasses, now established, in full possession of the soil.



At the Oakmont Golf Club, Pa. Stumpp & Walter Seeds used

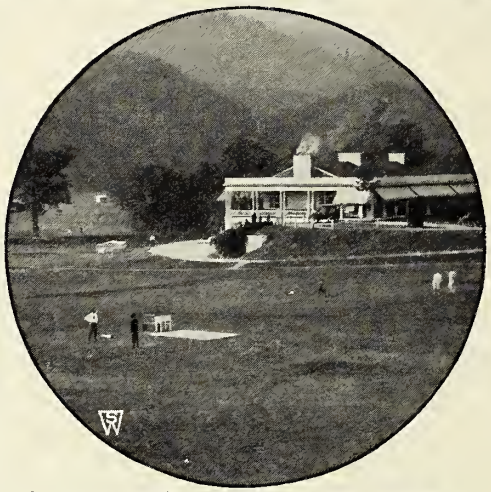
How to Use Divot Formula. Take two pailfuls of screened soil; with one of them mix thoroughly 2½ pounds of Divot Formula. Fill the divot with unmixed soil, and scatter a ¼-inch layer of the mixed soil and Divot Formula over it; press smooth with the foot. For ideal results tees should be inspected and treated in this way after each day's play, and fairways once a week.

Lb. 65 cts., 5 lbs. $3, 25 lbs. $14, 100 lbs. $55

SPECIAL FORMULA FOR TEES. Our formula includes only those varieties which will stand rough usage and recuperate quickly after excessive wear. **Lb. 65 cts., 5 lbs. $3, 25 lbs. $13, 100 lbs. $50.**

SPECIAL "ROUGH" FORMULA. Consists of the taller-growing hardy perennial grasses in combination with gorse, yarrow, and other plants suitable for the purpose and least likely to give serious trouble as weeds, should their seed be carried by the wind and other agencies on to your greens or fairways. **Lb. 50 cts., 5 lbs. $2.25, 25 lbs. $10, 100 lbs. $35.**

MIXED FESCUES FOR BUNKERS. A mixture of Red, Hard, Dwarf, Fine-leaved, Various-leaved, and Tall Fescues. Excellent for mounds, bunkers, and exposed sandy situations in the "rough." **Lb. 65 cts., 5 lbs. $3, 25 lbs. $13, 100 lbs. $50.**



On the old nine, looking toward the new eighteen, at the Greenbrier, White Sulphur Springs, W. Va. Stumpp & Walter Seeds used

WHITE CLOVER (*Trifolium repens*). Do not use for putting-greens, but it is occasionally recommended for fairways and tees. We offer the finest sample procurable. **Lb. 75 cts., 10 lbs. $7, 25 lbs. $14, 100 lbs. $55.**

GORSE or FURZE (*Ulex europæus*). This shrub makes British courses bright with its yellow blossoms in the spring. It is a slow grower and it will be some years before it will be effective. Broadcast ten pounds per acre over the "rough" and harrow in. Not recommended for the extreme North. **Lb. $1.50.**

YARROW (*Achillea millefolium*). A deep-rooting, drought-resisting plant with delicate, fern-like leaves, sometimes used in mixtures for tees or putting-greens. May be sown alone (when one pound is sufficient for an area of 40 by 40 ft.) or in combination with grass seeds. **Lb. $2.**



No. 17 Putting-Green, Hollywood Golf Club, N. J. Stumpp & Walter Seeds used

SEMESAN

For the control of brown-patch in turf

Infected turf is first drenched with a solution of Semesan and afterwards it is either sprayed with the solution or dusted with dry Semesan.

One pound of Semesan Powder is dissolved in a 50-gallon barrel of water, and this solution is applied at the rate of 5 quarts per square yard to the affected areas, using a water can; this *drenches* the turf. Later, at intervals of ten days, the turf is *sprayed*, using 1 gallon of the solution to each 25 square yards. If preferred, the powder may be dusted on dry instead of spraying, using 1 pound of the powder per 1,000 square feet.

The quantity of Semesan required for the first drenching depends upon the extent of the infected areas; the subsequent spraying or dusting should be over the entire green, when 4 pounds of the powder in solution should be allowed to each average green; rather more is required if the powder is put on dry—allow 5 pounds to each average green. Lb. $2.75, 5 lbs. $13, 25 lbs. $62.50, 50 lbs. $122.50, 100 lbs. $240.



New Course, Essex County Country Club, N. J. Stumpp & Walter Seeds used





Stumpp & Walter Co.'s Grass Seed Formulas and Stolons

We prepay delivery charges on seeds when cash accompanies your order

For Lawns

	Lb.	2½ lbs.	5 lbs.	12½ lbs.	25 lbs.	100 lbs.
Staigreen Lawn Seed. "Best on Earth"	$0 65	$1 55	$3 00	$7 25	$14 00	$55 00
All-Bent Lawn Formula. For lawns of the finest texture and for bowling-greens	1 25	3 00	5 75	13 50	26 00	100 00
	Qt.	4 qts.	8 qts.	½ bus.	Bus.	10 bus.
Shady Place Formula. For lawns under trees	$0 60	$1 90	$3 50	$6 25	$12 00	$115 00
Terrace Sod Formula. For terraces, hillsides and embankments	60	1 90	3 50	6 25	12 00	115 00
Seashore Formula. For lawns subject to the influence of salt spray	45	1 50	2 75	4 75	9 00	85 00
High-Grade Lawn Seed. For parks, college grounds and other large areas	45	1 50	2 75	4 75	9 00	85 00
Southern Formula. For lawns in the South	45	1 50	2 75	4 75	9 00	85 00





For Lawn Tennis

	Lb.	2½ lbs.	5 lbs.	12½ lbs.	25 lbs.	100 lbs.
West Side Formula. For tennis and croquet	$0 70	$1 65	$3 25	$7 75	$15 00	$57 50

For Athletic Fields

	Lb.	2½ lbs.	5 lbs.	12½ lbs.	25 lbs.	100 lbs.
Hurlingham Sports Formula. A tough grass for athletic sports, polo, baseball, football	$0 65	$1 55	$3 00	$6 75	$13 00	$50 00

For Golf

	Lb.	5 lbs.	25 lbs.	100 lbs.
Standard Putting-Green Formula. For dry, light soils	$0 75	$3 50	$16 00	$60 00
Special Putting-Green Bent Formula. For well-prepared, rich soils	85	4 00	18 75	70 00
Fairgreen Formula. Superfine Quality	65	3 00	13 00	50 00
Fairgreen Formula. Fine Quality	50	2 25	10 00	35 00
Special Divot Formula. Always keep a bag in stock	65	3 00	14 00	55 00
Special Formula for Tees	65	3 00	13 00	50 00
Special Rough Formula	50	2 25	10 00	35 00
Mixed Fescues for Bunkers	65	3 00	13 00	50 00

Creeping Bent Stolons, Washington or Metropolitan Strain. 5 square feet $1.75, 100 square feet $25, 1,000 square feet $225. Purchaser pays transportation on stolons.

QUANTITY OF GRASS SEEDS TO ORDER

House Lawns: One lb. per 400 sq. ft. or 100 lbs. per acre; 2 qts. per 400 sq. ft. or 5 bus. per acre. Double this quantity for quick results.

Tennis: Twenty-five lbs. to 50 lbs. per court; the smaller quantity for a regulation court, the larger quantity for a "full size" court.

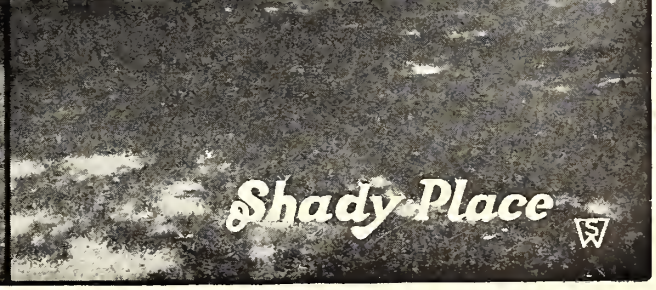
Athletic Fields: Two hundred lbs. per acre.

Golf: Putting-green, average, 75 lbs.; fairway 200 lbs. per acre; average tee 25 lbs. Use one-half the above quantities for renovating old turf.

One pound of grass seed measures, approximately, 1⅓ quarts; one quart weighs about ¾ pound







GRASS SEEDS IN SEPARATE VARIETIES

We are one of the *largest importers* of foreign-grown Grasses. One pound in every five pounds of Bent Seed which entered this country during 1926 was imported by us, and one pound in every five and one-half pounds of Chewing's Fescue. We also occupy a leading position in regard to domestic-grown Grasses. We obtain them direct from the best original sources, which we have discovered during thirty years' experience; they are botanically true, unblended, and new-crop. They are recleaned until our customers may be assured that they are of the maximum specific gravity, the highest degree of purity and germination—in other words, the best and most dependable. We lay special stress on the elimination of weeds.

Variety	Description* Enables you to distinguish varieties in your turf	Period of Maximum Development†	Use	Soil Suitable	Height Ins. if Uncut‡	Weight Per Bushel	Price Lb.	Price 10 lbs.	Price 100 lbs.
AGROSTIS VARIETIES OR BENTS (1 lb. contains about 4,000,000 live seeds)									
Creeping Bent, South German Mixed Bent, Fiorin (*Agrostis species*).	"Creeping Bent," a name used for many years for seed collected in Central Europe; and consisting of a mixture of *A. vulgaris, A. canina, A. stolonifera*	Early fall	Makes velvet-like, thick, beautiful, soft putting-greens and lawns; used largely in conjunction with Red Fescue.	All; especially moist land.	12				
			Superfine Quality			24	$1 75	$15 00	$135 00
			Fine Quality			16	1 50	12 50	110 00
Cocoos Creeping Bent (*A. maritima*).	Blades wide; strongly creeping.	Early fall	Makes mat-like, uniform turf.	Moist land	12	18	2 50	22 50	200 00
Colonial Bent (*A. tenuis; A. vulgaris*).	Blades very narrow, flat. Slightly creeping. Forms a brownish green velvety turf. Leaves are rolled in the bud.	Early fall	Splendid for putting-greens and fine lawns. Identical with Rhode Island Bent.	All soils.					
			Superfine Quality		18	24	1 85	16 50	140 00
			Fine Quality		18	18	1 65	14 00	125 00
Rhode Island Bent, Washington Strain (*A. tenuis*).	As above.	Early fall		All soils.	18	20	1 85	16 50	140 00
Red Top (*A. palustris; A. alba*).	Leaf-blades narrow, becoming very narrow with turf cultivation; plants slightly creeping. The young leaves are rolled in the bud. Prominent ligule.	Early fall	Valuable for the farmer and lawn-maker alike.	All soils.	24				
			Superfine Quality			36	50	4 50	37 50
			Recleaned Quality			32	45	4 00	32 50
			Ordinary Good Commercial Quality (unhulled)			18	30	2 50	20 00
POA VARIETIES OR MEADOW GRASSES (1 lb. contains about 2,000,000 live seeds)									
Kentucky Blue Grass (*P. pratensis;* June Grass).	Leaf-blades very narrow, flat; plants slightly creeping. Deep vivid green. Ligule short and thick. The young leaves are folded in the bud.	Early summer	Ideal ingredient in fairway mixtures; frequently used for putting-greens. Largely employed for lawns; makes good pasture.	All; particularly those containing lime.	12				
			Superfine Quality			27	$0 60	$5 50	$45 00
			Fine Quality			21	55	4 75	40 00
Rough-stalked Meadow Grass, Bird Grass (*P. trivialis*).	Leaf-blades narrow, flat; plants creeping. The young leaves are folded in the bud. Lower surfaces of leaves glossy.	Early summer	Suited for putting-greens, fairways or lawns under trees. Quite the best grass for shaded situations. Makes an exquisite turf.	All soils, including sandy.	12	26	75	7 00	60 00
Bulbous Blue Grass (*P. bulbosa*).	Leaves very fine; plant very dwarf; markedly frost-resistant.	Winter	For a winter lawn, particularly on Bermuda turf in the South.		6	...	2 75	25 00	200 00
Canadian Blue Grass (*Poa compressa*).	Leaf-blades narrow, flat; plants slightly creeping; stems flattened; color gray-green.	Early summer	Used by the farmer and lawn-maker, but Kentucky Blue Grass is more desirable.	All; especially limestones.	12	18	45	4 00	30 00
Wood Meadow Grass (*P. nemoralis*).	Leaf-blades narrow, flat. Medium dark green. The young leaves folded.	Late spring	Cannot be traced as permanently adapted to our climatic conditions.	All of medium texture.	12	20	85	8 00	70 00
FESTUCA VARIETIES OR FESCUES (1 lb. contains from 500,000 to 1,000,000 live seeds)									
Chewing's New Zealand Fescue (*Festuca rubra follax*).	Leaves wire-like and stiff, not flat; plants have a slight tendency to creep, but frequently form tufts.	Summer	Excellent for putting-greens, tees, and fairways; also hay- and pasture-fields. Gives good results under trees.	Satisfactory on poor land.	12	27	$0 60	$5 50	$45 00
Red Fescue, European Creeping Red Fescue.	Similar to above.	.....	Similar to above when pure.	.....	12	27	55	5 00	42 50
	"True spreading type." Fine leaves, dark green color.	Summer	Makes the finest vivid green turf.	Any	12	27	Prices on application		
Fine-leaved Sheep's Fescue (*F. ovina angustifolia; F. capillata; F. tenuifolia*).	Leaves wire-like and stiff, not flat; very fine. Color a beautiful dark green.	Late spring	Used on putting-greens and tees. Gives fair results where situation is shaded.	Any dry soil.	9	22	95	9 00	85 00
Hard Fescue (*Festuca duriuscula*).	Leaves wire-like; plants tend to grow in tufts.	Late spring	A valuable pasture variety when mixed with others.	Thin, dry soils.	12	20	55	4 75	40 00
Sheep's Fescue (*F. ovina;* English Fescue).	Leaves wire-like and stiff. not flat. Ligule reduced to short ears.	Late spring	Occasionally used on sheep pastures; excellent for the "rough" on golf-links.	Any except wet land.	12	16	55	4 75	40 00
Various-leaved Fescue (*F. heterophylla*).	Bottom leaves are bristly; upper leaves flat. Fine dark green. Plants of a tufted habit.	Late spring	Used to a limited extent on tees and fairways; also of value as an ingredient in hay and pasture mixtures.	Light soils, rich in humus.	15	15	95	9 00	85 00
Meadow Fescue (*F. pratensis*).	Leaves broad. Base of leaf-sheaths red.	Summer	Gives an abundance of fodder as a hay or pasture grass.	Any soil.	36	27	45	4 00	35 00
Tall Fescue (*F. elatior*).	Leaves medium broad.	Summer	A nutritive food for cattle.	Any.	48	22	60	5 50	45 00

GENERAL LIST OF GRASSES, continued

Variety	Description* Enables you to distinguish varieties in your turf	Period of Maximum Development†	Use	Soil Suitable	Height Ins. if Uncut‡	Weight Per Bushel	Price Lb.	Price 10 lbs.	Price 100 lbs.
LOLIUM VARIETIES OR RYE GRASSES (1 lb. contains about 300,000 live seeds)									
English Rye Grass (*L. perenne*).	Leaves narrow and flat, smooth and shining; leaf-bases red. Usually lives three years. The young leaves are folded in the bud.	Summer	A rapid grower and of value as a "nurse grass" under some conditions; particularly useful where a lawn is needed quickly; valuable for hay and pasture.	Medium soil well supplied with moisture.	24	28	$0 35	$3 00	$22 50
Pacey's Perennial Rye Grass (*L. perenne Pacey*).	A smaller-seeded, finer-leaved, smaller plant than the above.	Summer	Superior to the above for turf purposes, claimed to be more resistant to cold.	As above.	24	30	35	3 25	25 00
Italian Rye Grass (*L. italicum; L. multiflorum*).	An annual grass with a tendency to grow in tufts; tall; broad, flat leaves. Base of sheaths red. The young leaves are rolled in the bud.	Early summer	In the North occasionally valuable as a "nurse grass." Gives mammoth hay crops on rich land. In the South makes excellent winter turf, following Bermuda Grass.	Medium soil well supplied with moisture.	36	22	30	2 50	20 00
SUNDRY VARIETIES									
Bermuda Grass (*Cynodon dactylon; Capriola dactylon;* Scutch Grass).	A medium broad-leaved grass, strongly creeping. Does not survive winter north of Virginia.	Early fall	Valuable in the South for putting-greens, fair-greens, and lawns; also for pastures and hay-fields. Binds sand.	All soils.	12	36			
			Superfine Quality.....	.....	...	...	$0 60	$5 50	$45 00
Carpet Grass (*Axonopus compressus*).	A coarse perennial with creeping root stocks.	Summer	Satisfactory turf grass for the moist sandy soils of Florida.	Moist sands.	12	24	60	5 50	45 00
Timothy (*Phleum pratense;* Herd's Grass; Cat's Tail).	Very broad leaves; coarse, vigorous plant. Ligule small, pointed. Young leaves rolled in the bud.	Summer	The most important American grass for hay and pasture.	Rich land.	36	45	25	2 00	15 00
Awnless Brome Grass (*Bromus inermis*).	A large-growing perennial stoloniferous grass.	Summer	Useful for binding the soil of embankments. A pasture grass recommended for the dry soils of the Northwest.	Any.	30	14	40	3 50	30 00
Crested Dog's-tail (*Cynosurus cristatus*).	Leaves narrow and flat. The young leaves are folded in the bud. Base of leaf-sheaths yellow.	Early summer	Of limited usefulness in this country.	Hard, dry loams.	24	30	80	7 50	65 00
Dallas Grass (*Paspalum dilatatum*).	A strongly growing perennial.	Summer	Gives splendid grazing summer and winter in the South.	All soils.	30	20	65	6 00	50 00
Meadow Foxtail (*Alopecurus pratensis*).	Medium broad, flat leaves. Flower-heads resemble timothy. Base of leaf-sheaths violet. The young leaves are rolled.	Late spring	As a field-grass gives large yields early.	All soils.	36	10	1 00	9 75	95 00
Orchard Grass (*Dactylis glomerata;* Cocksfoot).	Large plant, bluish green in color, with flattened leaf-bases. Ligule prominent. The young leaves are folded in the bud.	Late spring	Widely used for hay and pasture, for which purposes it is of additional value in that it thrives under trees.	All soils.	48	14	40	3 50	30 00
Rhodes Grass (*Chloris virgata*).	A large, coarse perennial.	Summer	A splendid hay crop for the South.	All soils.	36	25	95	9 00	85 00
Sweet Vernal (*Anthoxanthum odoratum*).	Narrow, flat leaves. The young leaves are rolled in the bud; leaf-sheaths hairy.	Late spring	Very fragrant when drying. Occasionally used in mixtures of seeds for hay-fields.	All soils.	18	10	1 00	9 50	90 00
Tall Oat Grass (*Avena elatior; Arrhenatherum elatius;* False Oat Grass).	Very broad leaves; plant has the appearance of a slender, small oat.	Early summer	Valuable for hay and pasture.	All soils.	48	14	45	4 00	35 00

*The "Ligule" is a small membranous lip found on the inside of the leaf at a point where the leaf and stem part company. If a grass shoot be cut across with a knife, the leaves will be found flat with some varieties and rolled in others. The ligule and the manner of folding are important means whereby varieties may be distinguished.

†Indicates desirability of using mixtures rather than one variety for lawns. ‡Dwarf habit indicates suitability of variety for lawns.

White Clover (*Trifolium repens*). This familiar plant is much used for lawns and by the farmer for pasturage. It grows quickly, forms a close herbage, and remains green throughout the season. The addition of lime or bone-meal to the soil materially helps it. Lb. 75c., 10 lbs. $7.

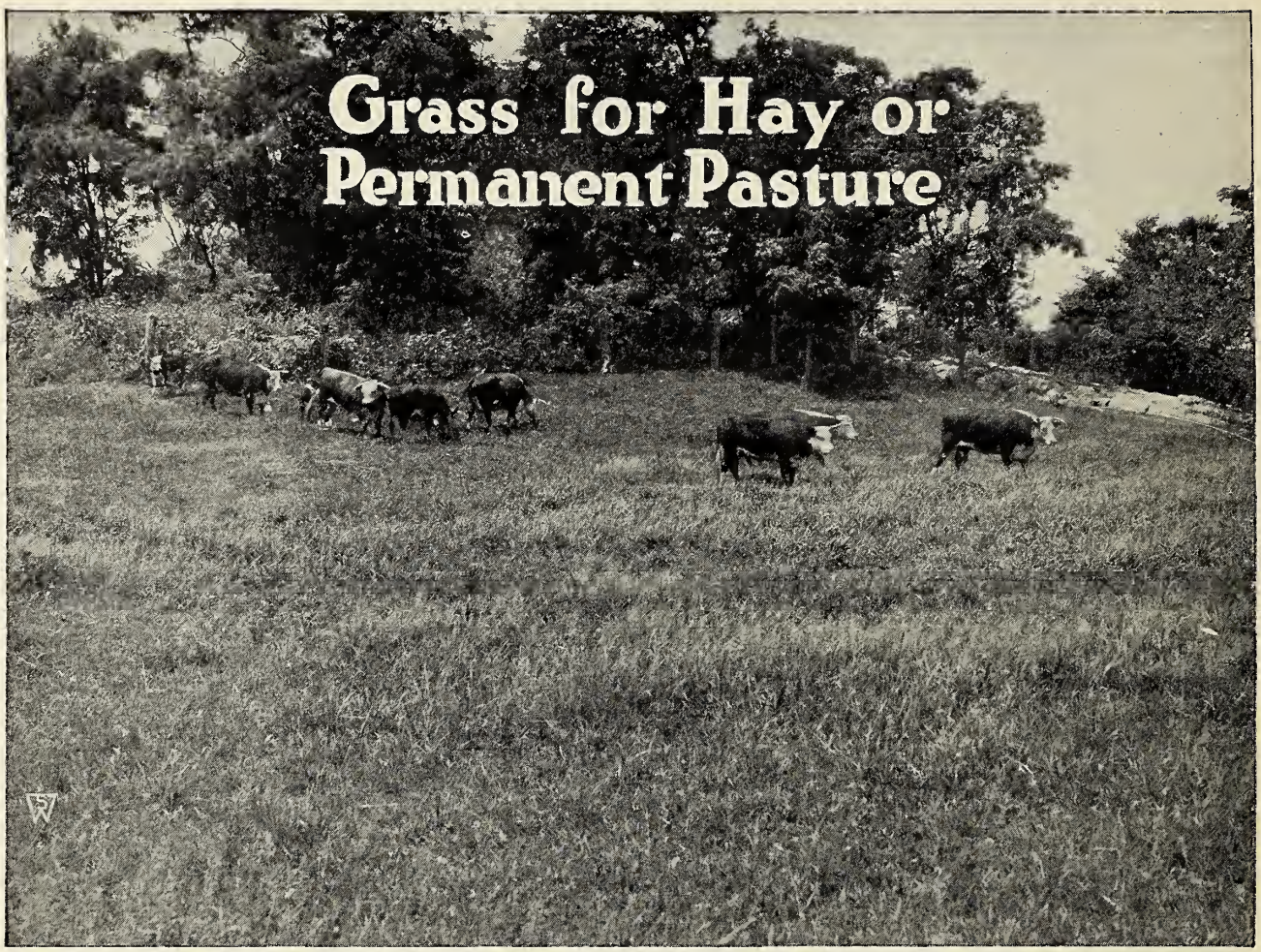
Stolons. We offer "stolons" or runners of Creeping Bent grass at $1.75 for 5 square feet, or $25 per 100 square feet; 5 square feet of stolons will plant a lawn 40 to 50 square feet in area. The method of producing lawns from these stolons instead of seeds is described on page 3.

FURTHER INFORMATION ON GRASSES: For additional reading on this subject we recommend:

"Golf Turf." Production and maintenance of golf links, lawns, and tennis courts. 64 pages, illustrated. Mailed free on request.

Lawn Making. By Leonard Barron. 176 pages profusely illustrated with original photographs. Grading, making, renovating, mowing, rolling, watering, feeding, weeding, seeding. Price with postage, $2.

"Turf for Golf Courses." Authoritative and practical treatise on the production of turf. 262 pages, with photographs and maps. C. V. Piper and R. A. Oakley, Price, with postage, $3.



Grass and Clover Mixtures for the Farmer

Timothy, Red-Top, and Red Clover have long formed the standard hay and pasture mixture for use on the American farm. It is not an ideal combination, but is inexpensive and we offer it under the heading of **Timothy-Red-Top-Clover Formula.** Where large yield and high quality are looked for, we recommend that a much wider variety than this be sown, using in addition to the above such types as Orchard Grass, Meadow Foxtail, Sheep's Fescue, Rhode Island Bent, Fiorin or German Bent, Cocoos Bent, Sweet-scented Vernal, Meadow Fescue, the Rye Grasses, the Blue Grasses, Oat Grass, Red, Mammoth, White, Wild White and Alsike Clovers; each of these is suited especially to certain kinds of soil and climatic conditions; some do well on high ground, others prefer plenty of moisture. It is necessary that these be selected in proper proportions, suitable to the soil conditions and for the purpose required. We use the best recleaned seeds only in these mixtures.

CLOVER AND GRASS FORMULA. For high quality hay or pasture. Includes a wide range of both grasses and clovers. Use 75 lbs. per acre when sowing new land. **Lb. 50 cts., postpaid 60 cts.; 10 lbs. $4.50, 100 lbs. $40.**

ALL-GRASS FORMULA. For high-quality hay or pasture. Grasses only—no clovers. Use 85 lbs. per acre when sowing new land. **Lb. 45 cts., postpaid 55 cts.; 10 lbs. $4, 100 lbs. $35.**

ALL-CLOVER FORMULA. For pasture. Use 25 lbs. per acre when sowing new land. **Lb. 55 cts., postpaid 65 cts.; 10 lbs. $5, 100 lbs. $45.**

TIMOTHY-RED-TOP-CLOVER FORMULA. For hay and pasture at low cost. Use 50 lbs. per acre when sowing new land. **Lb. 35 cts., postpaid 45 cts.; 10 lbs. $3, 100 lbs. $25.**

For renovating existing fields, use one-half the above quantities

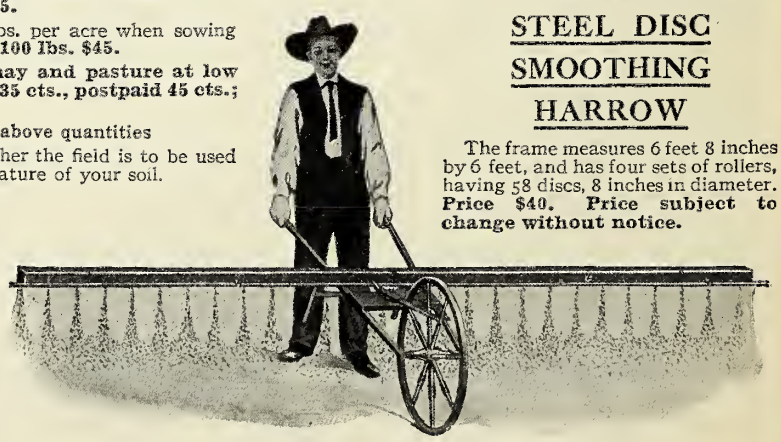
IMPORTANT. When ordering these seeds, tell us whether the field is to be used for hay or pasture, or both; please also describe the nature of your soil.

S. & W. CO.'S WHEELBARROW GRASS SEEDERS

For sowing all kinds of grass seeds broadcast, clover, timothy, alfalfa, Hungarian millet, rape and all small seeds. Also all chaffy seeds like red-top, orchard grass, and clean blue grass, bent grass, any quantity per acre desired. They are no experiment, and are guaranteed to do an even, accurate, first-class job of seeding. **Price (14 feet sowing area) $17; with additional hopper, for broadcasting Bordeaux powder, tobacco dust, etc., $30.**

STEEL DISC SMOOTHING HARROW

The frame measures 6 feet 8 inches by 6 feet, and has four sets of rollers, having 58 discs, 8 inches in diameter. **Price $40. Price subject to change without notice.**









How to Make a Lawn

With "Staigreen" Grass Seeds



THE production of a good lawn is not at all difficult. The method is as follows: (1) Dig the soil about 6 inches deep, but only when it is dry; if rain has fallen recently allow a few days of fine weather to elapse before commencing work. (2) As you dig, lift each clod high enough to enable you to turn it completely over. (3) Strike the inverted clod with the back of the fork to break it. (4) As the work proceeds, remove all stones, sticks, and rubbish. (5) Scatter **Stumpp & Walter Co.'s Emerald Grass Fertilizer** on the dug earth; use 1 ton per acre or 1 pound to each 25 square feet. (6) Draw a rake back and forth until the soil is smooth and in fine condition. (7) Sow **Staigreen Lawn Seed** at the minimum rate of 100 pounds per acre (4 bushels) or 1 pound (nearly 2 quarts) to each 400 square feet. Double the quantity when turf is needed quickly. Select a day when no wind is blowing; divide the seed into two portions and sow the land twice to insure its even covering; it is important to stir the contents of the bag now and again. When you have sown the seed, rake the land once more, but very lightly. Do not work the rake back and forth—merely draw it toward you in a series of light strokes, raking only once in the same place. The idea is to bury most of the grass seeds no more than ⅛inch deep. (8) Roll the seeded area, but should rain fall before the work is completed, defer the rolling until the land has dried.



How long will the Lawn be growing? This varies with the time of year, quality of soil, rainfall, etc. Under very favorable conditions the young seedlings show through in less than ten days and the whole area looks green in a further two weeks; wait four weeks more before walking on the grass except to mow and roll it.

When is the best time to make a Lawn? Early spring and late summer are the best, but seed will grow quite well if sown at any time of the year except during July.

Will the above directions hold on poor or sandy land? Before commencing work on poor soil, spread rotted horse-manure or cow-manure over the land at the rate of 20 tons to the acre or 1 pound per square foot. Then proceed exactly as directed. If manure cannot be procured, use Pulverized Sheep Manure at the rate of 2 tons to the acre or 1 pound to each 10 square feet. Do not attempt to grow a lawn on excavated soil, subsoil, or "fill" without first applying manure, digging, then adding at least an inch of top-soil, two or three if possible. Apply Emerald Grass Fertilizer, and proceed as suggested.



How about moist, sour soil? Spread hydrated lime at the rate of 2 tons per acre or 1 pound to each 10 square feet: then follow directions. In bad cases it will be necessary first to drain the land by digging ditches and laying tile.



Should I sprinkle the new Lawn with water? Yes, if seeding is followed by hot, dry weather. Otherwise it is best not to water for the first three weeks. Later, when the grass has started, it may be watered as required: use an approved sprinkler and soak every three days.

EMERALD GRASS FERTILIZER. 5 lbs. 50 cts., 10 lbs. 90 cts., 25 lbs. $1.75, 50 lbs. $3.25, 100 lbs. $5.50, 500 lbs. $22, ton $75.

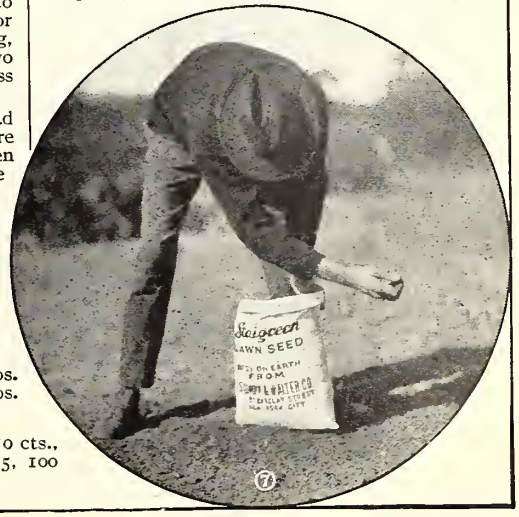
PULVERIZED SHEEP MANURE. 5 lbs. 50 cts., 10 lbs. 90 cts., 25 lbs. $1.50, 50 lbs. $2.75, 100 lb. $4.50, 500 lbs. $18, ton $65.

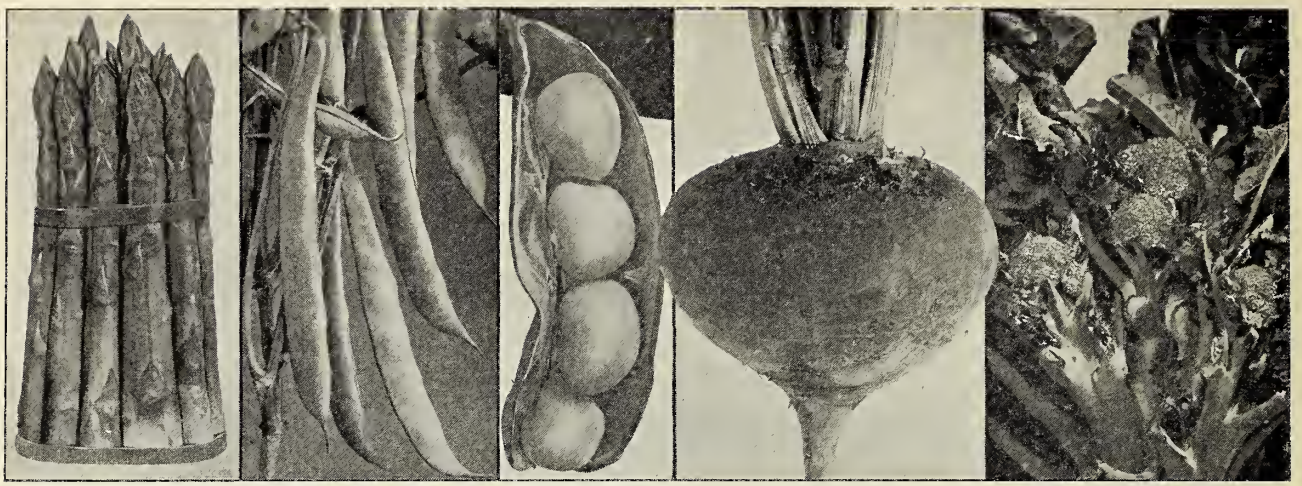
What after-care is needed? As soon as the young grass is 2 inches high, begin cutting it and keep it regularly mown; roll it at least once a week, and water during dry weather.

How about Weeds? Stumpp & Walter Co.'s seeds are as free from weeds as care and modern machinery can make them. All soils, however, contain seeds of weeds—some more than others—and many of these start to grow along with the grass. Close cutting will kill most of them, but the few that remain must be taken out, and the holes filled with good soil in which you have mixed some grass seeds.

How about White Clover? We include Clover only in our lowest-priced mixture, which we call "High Grade Lawn Seed," because Clover is generally omitted nowadays in the finest lawns. For the convenience of our customers who wish it, we offer **Superfine White Clover.** Oz. 10c., ¼lb. 30c., lb. 75c., 10 lbs. $7, bus. (60 lbs.) $33, 100 lbs. $55. Mixed with grass seeds, usual allowance of clover is 5 per cent.

Is "Staigreen" the best seed to use? No seeds are purer and no seeds grow more vigorously than the grass seeds in Staigreen, which is a mixture of five distinct varieties, and for the finest lawns Staigreen cannot be surpassed. For shade and special conditions use the mixtures described on the preceding pages. **Staigreen Lawn Mixture,** packed in 1-lb. sifter-top container, 65 cts. In bags, 2½ lbs. $1.55, 5 lbs. $3, 12½ lbs. $7.25, 25 lbs. $14, 100 lbs. $55.





Pedigreed Washington Asparagus | Magpie Bush Beans | Early Giant Bush Lima Beans | Early Wonder Beet | New York Market Broccoli

S. & W. Co.'s Novelties and

Pedigreed Washington Asparagus

Originally developed by the U. S. Department of Agriculture, further selected and improved. It is rust-resistant, particularly vigorous, and of wonderful quality. The shoots are large, straight, *dark green* in color and with a heavy purple over-tone; the tight, firm tips do not begin to open out until well out of the ground. Pedigreed Washington Asparagus stands ahead of all other varieties as a standard for the home or market-garden. **Extra-choice roots, $4.50 per 100; $40 per 1,000. Seed, pkt. 20 cts., oz. 65 cts., ¼lb. $1.75, lb. $5.**

Early Giant Bush Lima Beans

A quick-growing variety. The short period in which this Bean matures enables it to be *grown for succession*, sowings being made from May 15 to July 10 in the neighborhood of New York. Other varieties of Lima Beans take so long to mature that more than one seeding is barely practicable with them. The flavor of this variety is particularly refined, and the fine, luscious Beans, which are large, thick, and flat are produced in remarkable quantity. We suggest that our patrons give this variety a trial. **Pkt. 15 cts., ½lb. 30 cts., lb. 55 cts., 2 lbs. $1, 5 lbs. $2.25, 15 lbs. $6.25.**

Magpie Bush Bean

Magpie is of European origin and is so named from the speckled black-and-white seeds of the variety. The plant is of very strong growth, stocky, and very resistant to rust. The pods are long, meaty, and of the highest quality. Magpie is an enormous producer. Although largely grown as an outdoor sort it is suitable also for culture under glass. A great favorite on the estates of Westchester County, Long Island, and Connecticut. **Pkt. 25 cts., ½lb. 45 cts., lb. 85 cts., 2 lbs. $1.50, 5 lbs. $3.40, 15 lbs. $9.**

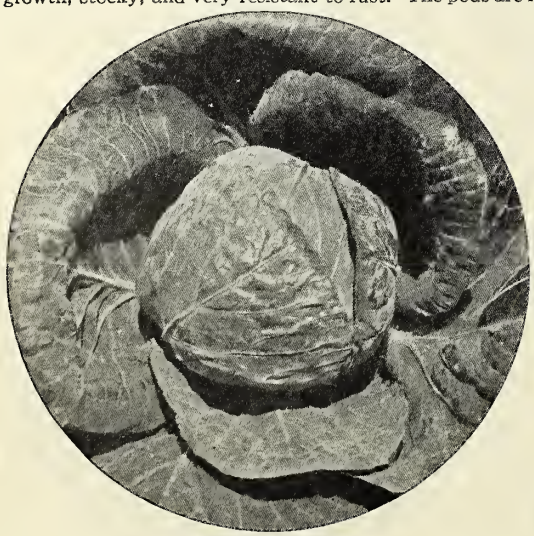
Early Wonder Beet

A variety which has gained wide popularity among market-gardeners, and one which the amateur may also grow with every confidence. It may be sown early, and it matures very rapidly. It is so uniform in growth that the crop can be lifted practically at one time, yielding the land early and quickly for the second crop. The root is nearly globular in shape, slightly flattened. The leaves are of medium size, and the color of the flesh is deep blood-red. **Pkt. 15 cts., oz. 35 cts., ¼lb. $1, lb. $3.**

New York Market Broccoli

(True Italian Strain)

The sprouting Broccolis furnish delicious boiling greens during summer, autumn, and early winter. The very choice variety which we offer has green, tender shoots and leaves produced in the greatest abundance. Cultivation is the same as that for cabbage, sowing from March to early July, transplanting later, 2 feet or more apart. Broccoli is preferred by many to cauliflower. **Pkt. 25 cts., ¼oz. $1.50, ½oz. $2.75, oz. $5.**



Golden-Acre Cabbage

Early Cone Savoy Cabbage

In this type the firm, close, solid heart is of a conical shape, corresponding in smooth Cabbages to Early Jersey Wakefield. The leaves are heavily and deeply corrugated; in color they are a rich dark green, the center blanching to a creamy white. Of all Savoys, this has the most refined flavor, and when touched with the first frosts of autumn it is delicious indeed. **Pkt. 20 cts., ¼oz. 45 cts., ½oz. 75 cts., oz. $1.25, ¼lb. $4.**

Zenith Red Cabbage

We consider this a great improvement on all other types of Red Cabbage. The heads are of medium size and very solid; the leaves are of fine texture with thin, light ribs, the outer leaves being few and small. In color, Zenith is particularly dark; and the variety is the best we know for home pickling or for market. Its relatively small size enables Zenith to be planted closer than Cabbage of the ordinary type, an important point where the area devoted to Cabbage is limited. **Pkt. 15 cts., ¼oz. 40 cts., ½oz. 60 cts., oz. $1, ¼lb. $3.50.**

Golden-Acre Cabbage

A small but very fine variety, as early as Jersey Wakefield, but with round, solid heads. The few outer leaves are small, permitting close planting and making the type a very suitable one, both for growth under glass and for the suburban gardener. Golden Acre produces uniform, tightly folded, and well-blanched heads of the best mild table quality. **Pkt. 25 cts., ¼oz. 70 cts., ½oz. $1.25, oz. $2.25, ¼lb. $6.**



Earligreen Celery



Golden Plume Celery



Melting Marrow Carrot



Midget Sweet Corn



Sicilian Fennel

Specialties in Vegetable Seeds

S. & W. Co.'s Melting Marrow Carrot

A specially fine variety that is cylindrical in shape and of wonderful butter quality. The skin is smooth and the fine red color is carried through the entire root. This splendid Carrot is recommended to the favorable notice of the private gardener for exhibition purposes, and to the commercial grower for profit. It is, further, the best Carrot we know from the culinary standpoint. **Pkt. 15 cts., oz. 55 cts., ¼lb. $1.50, lb. $4.**

The Best Early Cauliflower, S. & W. Co.'s Best of All

The easiest grown and surest heading Cauliflower offered today. In habit the plant is very dwarf, stocky, and erect. It has very few outer leaves and, as a consequence, the young Cauliflower plants may be planted less than 2 feet apart each way. All that is necessary is to select suitable soil, when every plant will form a large, solid, perfect head of the finest table quality and of handsome appearance. **Pkt. 25 cts., ⅛oz. $1, ¼oz. $1.75, ½oz. $3.25, oz. $6.**

Golden Wedding Corn

A fine new sort, yielding two, and sometimes three, ears to each plant. It is a yellow variety, like Golden Bantam, but the ears are much larger and have 12 or more rows instead of the 8 rows of Golden Bantam. For sweetness and general refinement of flavor we consider it superior to the old Golden Bantam, and it is being served by many leading New York hotels. **½lb. 30 cts., lb. 55 cts., 2 lbs. $1, 5 lbs. $2.25.**

S. & W. Co.'s Midget Sweet Corn

A miniature Sweet Corn that is markedly suitable for the small garden, city back yard, window-box, or for growth in pots, and adapted for culture under glass. The tiny plant grows no taller than about 30 inches, and the ears are only 3 to 4 inches long, but from two to five of these petite ears are produced on a single stalk. The ears are of fine quality—the kernels white, meaty, and very sweet, while the cob is small. The ease with which these tiny ears may be handled in the kitchen is alone sufficient to commend it to the housewife, while, in addition, the quality is superior to a degree. A decided novelty. **Pkt. 25 cts., 5 pkts. $1.**

Improved Early White Spine Cucumber

The fruits are nearly cylindrical in form, slightly pointed at the ends, perfectly smooth and of deep, rich coloring marked with distinct white lines at the blossom end. Will retain its color longer after pickling than most varieties, and is splendid as a table Cucumber. **Pkt. 10 cts., oz. 25 cts., ¼lb. 65 cts., lb. $1.75.**

Sicilian Fennel

This vegetable is given the same general cultivation as celery, although it is not blanched to the same degree. An earthing of 3 inches or less, thrown up around the thickened leaf-stems, is sufficient. In this superior type the "bulb" is in section a thick oval, and not flat, as in the Florence Fennel. **Pkt. 10 cts., oz. 25 cts., ¼lb. 80 cts.**

Earligreen Celery

Earligreen is the finest, earliest green Celery that we know, and is a fitting counterpart to Golden Plume. Sown in February and March, and planted out in May, we have seen this variety offered in the New York market by mid-August, fetching high prices in the short period after the supply of southern Celery has ceased and before local Celery comes into the market. The plant is surprisingly large for an earliest early sort; although it is stocky in habit, it is not so markedly so as Golden Self-blanching and Golden Plume. The outer leaves are green, and the very full heart is pure white, brittle, and of the most delicious flavor. Earligreen is like Golden Plume in that both are originations of leading growers, both of whom have been, for many years, supplying the New York consumer with table Celery. It is of sterling merit, and we predict a fine future for it. This year again the supply of seed is strictly limited, and we offer only in packets. **Pkt. 25 cts., 6 pkts. $1.25.**

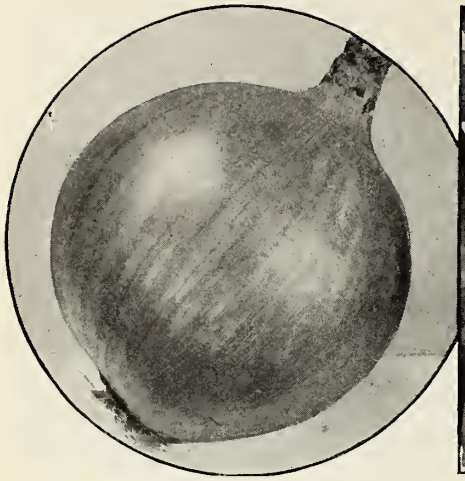
Golden Plume Celery

Golden Plume Celery fills a want that both amateur and professional gardeners have long felt. It is a much-improved form of Golden Self-blanching, and the improvements are (*a*) superior eating quality, (*b*) wonderful golden color, (*c*) marked resistance to blight and rust, (*d*) earlier maturity, (*e*) superior keeping qualities, (*f*) increased size. It possesses a fine, nut-like flavor, and is handsome in appearance. We offer the raiser's original strain.

Pkt. 25 cts., ⅛oz. $1.10, ¼oz. $2, ½oz. $3.50, oz. $6.



S. & W. Co.'s Best of All Cauliflower



Gigantic Gibraltar Exhibition Onion



Eight Weeks Peas



Market Surprise Peas



Admiral Beatty Peas



S. & W. Co.'s Exhibition Parsley

Earliest Selected White Kohlrabi

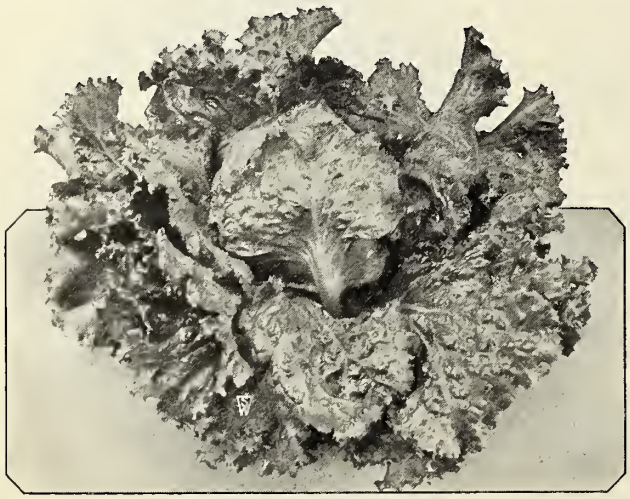
An early type with few leaves, seldom over 8 inches long. The "bulb" is of medium size and fine quality, ready to be eaten in ten weeks from the time of sowing. Its small size makes this variety particularly valuable for growth under glass as well as in the open ground, and also enables it to be planted very much closer than usual. **Pkt. 20 cts., oz. 65 cts., ¼lb. $1.75, lb. $5.**

New York or Wonderful Lettuce

Possibly the largest Lettuce in cultivation. It is so distinct that, with its crisply curled leaves, very dark color, and remarkable size, it may puzzle even the experienced grower if unacquainted with it. New York is a sure-heading variety, suitable both for spring and late summer planting; the big, compact, white heads are of the best possible quality. The heart is large, white, crisp and very compact. New York or Wonderful needs 50 per cent more room in which to grow than varieties of the usual type. **Pkt. 15 cts., oz. 50 cts., ¼lb. $1.40, lb. $4.**

Thanksgiving Day Lettuce

The best Lettuce for sowing during the hot days of August to produce a crop in the late autumn. Under these severe conditions, most varieties will "bolt" into flowers and fail to form a head. This is not the case with Thanksgiving Day, however, which grows steadily along to maturity at a time when most garden crops are over. While the outer leaves of this variety take on the sere and yellow look of autumn, being fringed and brown in color, the close, tight head is of bright fresh golden green, good to look upon, crisp, short, and of splendid flavor. **Pkt. 15 cts., oz. 50 cts., ¼lb. $1.40, lb. $4.**



New York or Wonderful Lettuce

Gigantic Gibraltar Exhibition Onion

By far the most dependable strain of the giant type of Onion. It is somewhat similar in appearance to Prizetaker, except that it is lighter in color, and, while larger in size, is a splendid keeper and of decidedly mild flavor. In some cases the Onions have weighed 3½ pounds, and are quite the largest we have ever seen. Comparative tests show that from an exhibition standpoint its longer period of growing warrants a trial against the favorite Ailsa Craig. To grow these extra-large exhibition specimens, seeds are generally sown early in February, in a hotbed or greenhouse, and the young seedlings are transplanted. **Pkt. 20c., ½oz. 45c., oz. 75c., ¼lb. $2, lb. $5.50.**

S. & W. Co.'s Exhibition Curled Parsley

This Parsley is remarkable for its fine leaves and close habit. In flavor it is superior to that of any known variety, and it is very tender. The seed offered has been saved from exhibition plants only. **Pkt. 25 cts., 5 pkts. $1.**

S. & W. Co.'s Selected Exhibition Parsnip

A splendid Parsnip for exhibition purposes. This variety, grown by a very successful exhibitor, was pronounced quite the best of five varieties sent for exhibition purposes. **Pkt. 25 cts., 5 pkts. $1.**

Three Wonderful Peas

Eight Weeks. A remarkable super-first-early round-seeded Pea, 18 inches high. It may be sown on a warm border when snow is still present in other parts of the garden; the result will be Peas *weeks* before those obtained from main seedings. **Pkt. 15 cts., ½lb. 30 cts., lb. 50 cts., 2 lbs. 90 cts., 5 lbs. $2.10, 15 lbs. $5.75.**

Market Surprise. On vines 3 feet tall. Market Surprise bears 3½-inch pods in great quantities, within 60 days from date of sowing. It is thus but four days later than the best Extra-Early, while the pods contain on an average two more Peas, and the Peas are larger. They are of truly remarkable sweetness. Home-gardeners, as well as truckers, will find this new sort a big surprise in every way. **Pkt. 15 cts., ½lb. 30 cts., lb. 50 cts., 2 lbs. 90 cts., 5 lbs. $2.10, 15 lbs. $5.75.**

Admiral Beatty. The parents of this splendid new English variety are Gradus and Alderman, and it is intermediate between them in habit and season. It is 3½ feet high, and the Peas are wrinkled; their cooking quality is excellent. The pods are long and pointed, contain nine or ten Peas, and are produced abundantly. **Pkt. 20 cts., ½lb. 35 cts., lb. 60 cts., 2 lbs. $1.10, 5 lbs. $2.50, 15 lbs. $7.25.**

Perfection Pimiento Pepper

One of the best for the home garden, to be used both green or ripe. Top-shaped, smooth, the flesh is twice as thick as that of ordinary Peppers, delicious in flavor, sweet and entirely free from pungency. **Pkt. 15 cts., ½oz. 50 cts., oz. 85 cts., ¼lb. $2.50.**



20-Day Leafless Radish



Bonny Best Tomato



Essex Wonder Tomatoes



Topepo

Topepo

THE LARGE TOMATO-LIKE PEPPER

This fruit resembles a tomato in shape and size, and is of a beautiful orange color. The seeds are few and the seed cavity is relatively small. The flavor is mild and exceedingly sweet, and the thick skin which encloses the flesh makes it a valuable shipping sort. Its handsome appearance and sweet flavor warrant its inclusion in every garden. It may be used as a salad vegetable, sliced and served with tomatoes and lettuce, or the center of the fruit may be removed and filled with crab-meat, shrimp, or lobster. Topepos also are splendid either boiled or baked. **Pkt. 50 cts., 5 pkts. $2.**

Twenty-Day Leafless Radish

The quickest maturing of all Radishes—within twenty days from the date of sowing you have roots ready for the table. The Radishes are oval in shape, bright scarlet in color, with a tip of white. The flesh is clear white, solid, tender yet crisp, and of excellent flavor; in fact, the quality is unsurpassed. When mature the plant has but two small leaves, just sufficient for bunching. Twenty-Day Leafless is suitable both for forcing under glass and for spring and fall cultivation in the open ground. It is valuable alike to the estate superintendent, commercial grower, and amateur gardener. **Pkt. 15 cts., oz. 45 cts., ¼lb. $1.30, lb. $3.50.**

S. & W. Co.'s Emerald Standing Spinach

A very large and vigorous type of compact, flat, spreading growth. The leaves are large, thick, slightly crumpled, very fleshy, and carried on long stems. The color is a very dark green. The most important point about this Spinach, however, is that *it stands fully one month longer than any other variety* before bolting to seed. In spite of this, it is quite early to mature, and is a variety to be recommended from every point of view. **Pkt. 10 cts., oz. 20 cts., ¼lb. 45 cts., lb. $1.25.**

Perpetual Spinach

The seed of this desirable plant may be sown any time from April to June and in six weeks cutting may commence, to continue right through into fall, for perpetual Spinach is highly resistant to frost. The "greens" furnished are similar in flavor to true Spinach, the leaves being very tender, even when allowed to grow large; they are both palatable and healthful. Cut the leaves about 3 inches from the ground. We offer a special strain of imported seed that has given satisfaction wherever sown. **Pkt. 15 cts., oz. 45 cts., ¼lb. $1.30, lb. $3.50.**

Mammoth New York Swiss Chard

This is a new and quite distinct sort, medium green in color, and of large size. The leaves are smooth, and the stalks are solid, thick, and of a pearly whiteness. The remarkable feature about Mammoth New York, however, is its superior flavor: careful breeding has entirely eliminated the earthy flavor which many Chards possess. We anticipate a large demand for this variety. **Pkt. 20 cts., ½oz. 55 cts., oz. 95 cts., ¼lb. $2.50.**

Bonny Best Tomato: McFarland's Strain

This Tomato has been developed by Prof. F. T. McFarland, of the University of Kentucky. His efforts have been toward the production of a type that resists the attacks of the blossom-end rot, and so far not a single Tomato of this strain has shown the slighest trace of rot. The seed of this variety is strictly limited. **Pkt. 25 cts., 5 pkts. $1.**

Essex Wonder Tomato

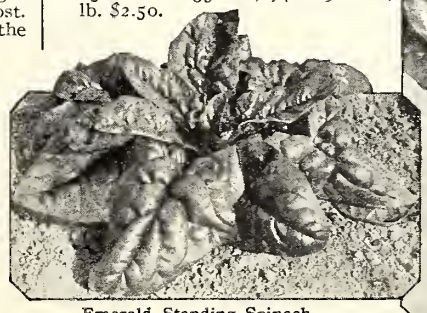
This variety has been evolved by an English grower, and combines extreme hardiness with high-quality fruit and heavy yield. It will withstand several degrees of frost without injury and may be set out a few days earlier than ordinary sorts, while late plantings will yield fruit along into October.

Seven trusses of fruit on a single-stem plant is not exceptional, and many trusses may consist of upward of twenty fruits, each weighing three to four ounces. These fruits set, develop, and ripen in a remarkable hurry. Essex Wonder Tomato has a thin skin; its plum-like pulp, abundant juice, and freedom from tough, fibrous matter make it good eating indeed. **Pkt. (about 200 seeds) 50 cts.**

English Vegetable Marrow

A type of Squash that always occupies an important place in European gardens, and one which is considered superior in many respects to our American varieties of Summer Squash. Cultivation is similar, although to obtain quickest and largest yields it is often grown on spent hotbeds or in a few inches of soil placed on a manure-pile. The Marrows are gathered before they ripen—usually in about a similar stage of maturity to that of cucumbers when gathered for slicing. They are peeled, divided, and the seeds are removed; then cut into 3-inch squares, boiled until tender and served as a melting and delicious side dish with cream sauce.

Long Green Trailing. Pkt. 10 cts., oz. 35 cts., ¼lb. $1, lb. $3.
Long White Trailing. Pkt. 15 cts., oz. 35 cts., ¼lb. $1, lb. $3.
Moore's Cream. Pkt. 15 cts., oz. 45 cts., ¼lb. $1.30, lb. $3.50.
Mixed Vegetable Marrow. Pkt. 15 cts., oz. 35 cts., ¼lb. 90 cts., lb. $2.50.



Emerald Standing Spinach



Mammoth N. Y. Swiss Chard

Stumpp & Walter Co.'s Vegetable Seeds

It has always been our endeavor to list only such sorts of Vegetable Seeds as, from our tests, we have found to be of superior merit; and, while we have in many instances not listed certain varieties, which have been struck out on account of being out of date, we have in every instance listed a superior sort which we can recommend as being more satisfactory both for the market and the home garden.

WE STRONGLY RECOMMEND ALL VARIETIES LISTED IN BOLD TYPE

ASPARAGUS ROOTS

The demand for Asparagus as an early spring vegetable is becoming quite popular. It is generally thought that it requires too much space for growing, but a plot 6 feet wide and 50 feet long will be sufficient to plant 100 of our Mammoth roots, sufficient for an ordinary family. Roots of this age should be planted, as they will yield Asparagus quickly.



CULTURE.—Dig a trench, 1½ feet deep and 1 foot wide, and fill in about 4 inches with well-rotted manure, tread down firmly. On this put about 5 inches of good, rich soil, and then lay the roots in, about 18 ins. apart, taking care to spread well, having the crown in an upright position. Cover to within 4 inches of the top of the trench and, as the plants grow, gradually fill the trench to the surface. For spacing between the rows allow 18 ins.

Pedigreed Washington. Originally developed by the U. S. Department of Agriculture, further selected and improved. It is rust-resistant, particularly vigorous, and of wonderful quality. The shoots are large, straight, *dark green* in color and with a heavy purple over-tone; the tight, firm tips do not begin to open out until well out of the ground. Pedigreed Washington Asparagus stands ahead of all other varieties as a standard for the home- or market-garden. **Extra-choice roots, $4.50 per 100, $40 per 1,000.**

CONOVER'S COLOSSAL. A mammoth bright green sort, the tips of which are often tinged purple. Very tender and of good quality—quite the best of the older standard kinds.

	100	1,000
Mammoth Roots	$3 50	$30 00

ASPARAGUS SEED

One ounce will plant about 50 feet of drill

PEDIGREED WASHINGTON. One of the difficulties in growing Asparagus is the damage often done by rust. Dusting with powdered sulphur when the plants are wet with dew is good practice, and spraying with bordeaux mixture is also to be recommended. The best procedure, however, is to plant only rust-resistant varieties, and **Pedigreed Washington** is the most highly resistant type we know. Read the description above. Seed, pkt. 20 cts., oz. 65 cts., ¼lb. $1.75, lb. $5.

CONOVER'S COLOSSAL. The standard variety. Reliable. Seed, pkt. 10 cts., oz. 15 cts., ¼lb. 40 cts., lb. $1.

NOTE.—For the Asparagus beetle, spray with arsenate of lead, offered on page 176.

ARTICHOKE

One ounce will produce 500 plants

The scales and bottom of the flower-heads are eaten, either boiled or raw, as a salad. The young suckers are sometimes tied together and blanched and served in the same manner as asparagus. The plants thrive best in deep, rich soil where the water will not lodge in winter-time. Sow seeds indoors, and pot up similar to tomatoes, setting out in May, in rows 3 feet apart, leaving 2 to 3 feet between the plants. Some flower-buds may be had the first year. Cover with ashes and leaves in winter. Usually bears best the second year.

Large Green Globe. The best variety. Pkt. 25 cts., ½oz. 60 cts., oz. $1, ¼lb. $3.

ARTICHOKE ROOTS

Jerusalem Artichoke. Distinct from the Globe, and propagated by and for the tubers. Plant in rows, 3 feet apart and 1 foot apart in the row, and cultivate occasionally. Allow the tubers to remain in the ground until needed. Used for feeding stock or pickling, or may be served boiled, like new potatoes. Qt. 35 cts., pk. $2.



Fordhook Bush Lima Beans

LIMA BEANS

(Dwarf Bush)

One pound will plant 50 to 100 feet of drill

If ordered alone add for mailing, 5 cts. per ½pound, 10 cts. per pound, and 15 cts. per 2 pounds to the prices listed

Fordhook. A form of the popular Challenger or Potato Lima, and earlier. Both pods and Beans are almost twice the size of the Kumerle or Dreer's Bush Lima. Pods measure 4 to 5 inches, frequently containing 4 fine Beans of the finest flavor. **Pkt. 10 cts., ½lb. 30 cts., lb. 50 cts., 2 lbs. 90 cts., 5 lbs. $2.10, 15 lbs. $5.75.**

New Improved Bush Lima. Similar to Burpee's Bush Lima except that pods are larger in size and are well filled with larger and thicker Beans. A far greater producer; growth more vigorous; the blossom-bearing stalks are thrown well out of the foliage, and the Beans are ready for picking a full week earlier. **½lb. 25 cts., lb. 45 cts., 2 lbs. 85 cts., 5 lbs. $2, 15 lbs. $5.50.**

Early Giant. A quick-growing variety. The short period in which this Bean matures enables it to be *grown for succession*, sowings being made from May 15 to July 10 in the neighborhood of New York. Other varieties of Lima Beans take so long to mature that more than one seeding is barely practicable with them. The flavor of this variety is particularly refined, and the fine, luscious Beans, which are large, thick, and flat are produced in remarkable quantity. **Pkt. 15 cts., ½lb. 30 cts., lb. 55 cts., 2 lbs. $1, 5 lbs. $2.25, 15 lbs. $6.25.**

Henderson Bush Lima. Both pods and Beans are small, but they are produced in large quantities. The standard Lima for canning. ½lb. 25 cts., lb. 40 cts., 2 lbs. 75 cts., 5 lbs. $1.75, 15 lbs. $4.75.

CULTURE OF LIMA BEANS

Don't waste your seed by sowing Lima Beans before all danger of frost is over and the soil is thoroughly warm. Sow **Bush sorts** in rows 2 feet apart and about 3 inches deep, putting the Beans 2 inches apart in the row "eye down," later thinning so that the plants stand 6 to 8 inches apart. For **Pole varieties** put six seeds in each hill, arranging the hills 3 feet apart each way. They require a pole 7 feet high, and when the vines have reached the top, pinch them and so increase the yield. Some gardeners plant under glass and transplant about the time seeds are usually sown. Limas always do best on a nice, rich, loamy soil. Surplus stock may be ripened on the vines, dried and kept for winter use.

BEANS	
½ lb.	equals about ½pint
1 lb.	equals about 1 pint
2 lbs.	equal about 1 quart
15 lbs.	equal about 1 peck

LIMA BEANS (Pole)

One pound will plant 50 hills

If ordered alone add for mailing, 5c. per ½pound, 10c. per pound, and 15c. per 2 pounds to the prices listed

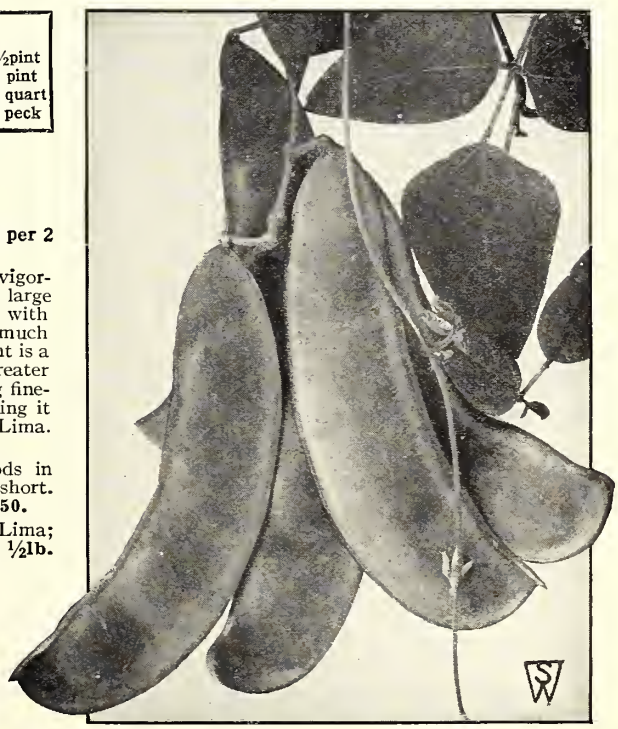
S. & W. Co.'s Green-seeded. The vine is very strong, of vigorous growth, with many large runners or branches, producing a great many fine pods which are closely filled with large Beans, a large proportion containing four. This is a broad-seeded Bean, much nearer to having every Bean perfect than any other Pole Lima. The green tint is a distinctive feature of this Bean, for it retains this tint in the dry state to a greater extent than usual, which indicates the fine qualities which it possesses, being fine-flavored and more tender when cooked than white-seeded Beans, and making it more pleasing to gardeners and housekeepers. It is the most perfect Pole Lima. **½lb. 30 cts., lb. 55 cts., 2 lbs. $1, 5 lbs. $2.25, 15 lbs. $6.25.**

Early Leviathan. The earliest variety of Pole Lima; produces pods in clusters. A splendid variety where the season is short. **Pkt. 10 cts., ½lb. 25 cts., lb. 45 cts., 2 lbs. 85 cts., 5 lbs. $2, 15 lbs. $5.50.**

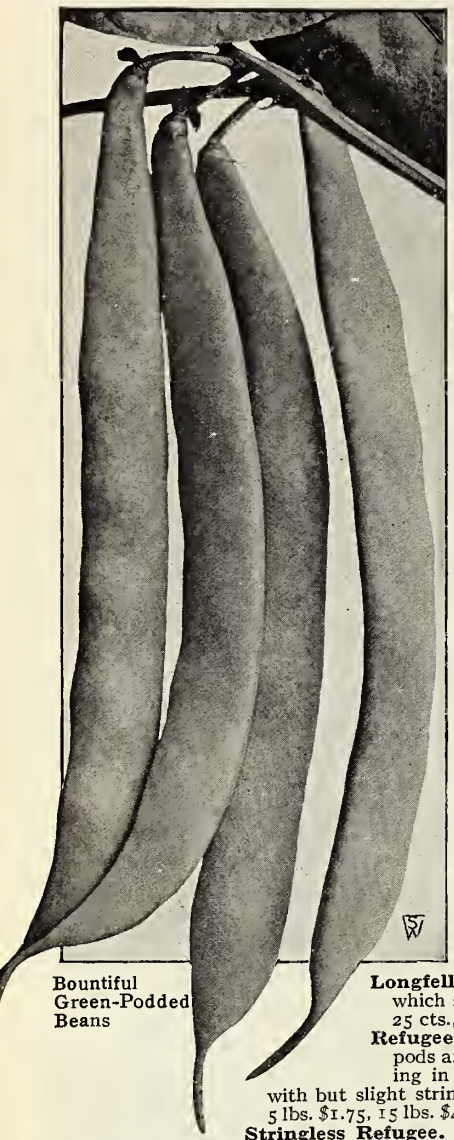
Challenger, or Potato. Early and more prolific than the large Lima; a small Bean of decidedly excellent flavor. **½lb. 25 cts., lb. 45 cts., 2 lbs. 85 cts., 5 lbs. $2, 15 lbs. $5.50.**

Ford's Mammoth. Very large pods, frequently measuring 9 inches long; Beans flat and large; fine for the home garden; productive and of good flavor. **½lb. 25 cts., lb. 40 cts., 2 lbs. 75 cts., 5 lbs. $1.75, 15 lbs. $4.75.**

SPECIAL FREE DELIVERY. We deliver assorted vegetable and flower seeds anywhere in the United States when cash accompanies your order; please, however, add postage when peas, beans and corn (which are heavy in proportion to their value), are ordered alone.



S. & W. Co.'s Green-seeded Pole Lima Beans



Bountiful Green-Podded Beans

DWARF or BUSH BEANS

One pound will plant 100 feet of drill

CULTURE.—Plant as soon as danger of frost is over, placing the seeds 2 to 3 inches apart in drills and about 2½ inches deep. The rows should be about 2½ feet apart, and the soil slightly hilled, to insure good drainage and keep the Beans from touching the ground. Most Beans should be picked when about 4 inches long. Frequent pickings insure a more prolonged bearing season. Avoid jerking the plant, as this frequently disturbs young feeding roots. Use the finger-nails to sever the stems. Do not pick when bushes are wet, as this may cause blight and rust. For succession in the home-garden plant 30 feet of row every other week up to August 1.

GREEN-PODDED BEANS

If ordered alone add for mailing, 5c. per ½pound, 10c. per pound, and 15c. per 2 pounds

Bountiful. To this Bean belongs the distinction of being one of the best **flat, Green-Podded Bush Beans;** very prolific and a continuous bearer from early spring to late fall. It is tender and of delicious flavor. Is as entirely stringless as the breeder has been able to make a flat, green-podded Bean. Its pods contain a little more fiber than Stringless Green-Pod of like age, but they average large and are entirely stringless until they become longer than 5 inches. One of the earliest Bush Beans. **Pkt. 10 cts., ½lb. 25 cts., lb. 45 cts., 2 lbs. 85 cts., 5 lbs. $2, 15 lbs. $5.50.**

Stringless Green-Pod. This Bean remains among the very best first-early round-podded Bush Beans. A very free bearer; entirely stringless; averages 5 inches long and is slightly curved. A handsome sort, borne on a healthy plant which stands dry weather well. **½lb. 25 cts., lb. 45 cts., 2 lbs. 85 cts., 5 lbs. $2, 15 lbs. $5.50.**

Giant Stringless Green-Pod. Pods greatly resemble those of Stringless Green-Pod. Fully an inch longer in size but a trifle later. A variety that is largely grown for the market on account of its size and good shape. Splendid sort for succession when planted with Stringless Green-Pod. **½lb. 25c., lb. 45c., 2 lbs. 85c., 5 lbs. $2, 15 lbs. $5.50.**

Black Valentine. A Bean which has been planted extensively in the South on account of its heat-resisting qualities. Matures early, producing long, round, straight pods, which are tender when quite young. Perfects the crop all at once, hence valuable as a market sort. **Pkt. 10c., ½lb. 25 cts., lb. 40 cts., 2 lbs. 75 cts., 5 lbs. $1.75, 15 lbs. $4.75.**

Early Red Valentine. This variety is valuable on account of its earliness. Pods very fleshy, round and saddle-backed, with slight strings. Bushes grow uniformly about 15 inches in height and produce a large crop. **½lb. 25 cts., lb. 45 cts., 2 lbs. 85 cts., 5 lbs. $2, 15 lbs. $5.50.**

Dwarf Horticultural. Pods are medium in length, slightly curved, and when nearly developed are splashed with bright red on a yellow skin. The green-shelled Beans are of fair size, tender, and fine flavored. ½lb. 25 cts., lb. 40 cts., 2 lbs. 75 cts., 5 lbs. $1.75, 15 lbs. $4.75.

Longfellow. Extra-early, producing long, round, green pods which are tender, brittle, and stringless when young. ½lb. 25 cts., lb. 45 cts., 2 lbs. 85 cts., 5 lbs. $2, 15 lbs. $5.50.

Refugee, or **1,000-to-1.** One of the latest Beans. The pods are nearly round, light green, 5 inches long, terminating in a slender point; fleshy, brittle, and mild in flavor, with but slight strings. Pkt. 10 cts., ½lb. 25 cts., lb. 40 cts., 2 lbs. 75 cts., 5 lbs. $1.75, 15 lbs. $4.75.

Stringless Refugee. The most satisfactory all-round Bean we know of. A very heavy cropper, its flavor is wonderful and it is absolutely stringless. Valuable for immediate use, for pickling or for canning. Pkt. 15 cts., ½lb. 30 cts., lb. 50 cts., 2 lbs. 90 cts., 5 lbs. $2.10, 15 lbs. $5.75.

BEANS FOR DRY SHELLING

Pea or **Navy.** A snowy white variety of uniform small size. The plants grow upright and bear the pods well off the ground. A field Bean of which large acreages are grown. ½lb. 20 cts., lb. 35 cts., 2 lbs. 65 cts., 5 lbs. $1.50, 15 lbs. $4.25.

Boston Marrow.
Red Kidney. } ½lb. 20 cts., lb. 35 cts., 2 lbs. 65 cts., 5 lbs. $1.50, 15 lbs. $4.25.

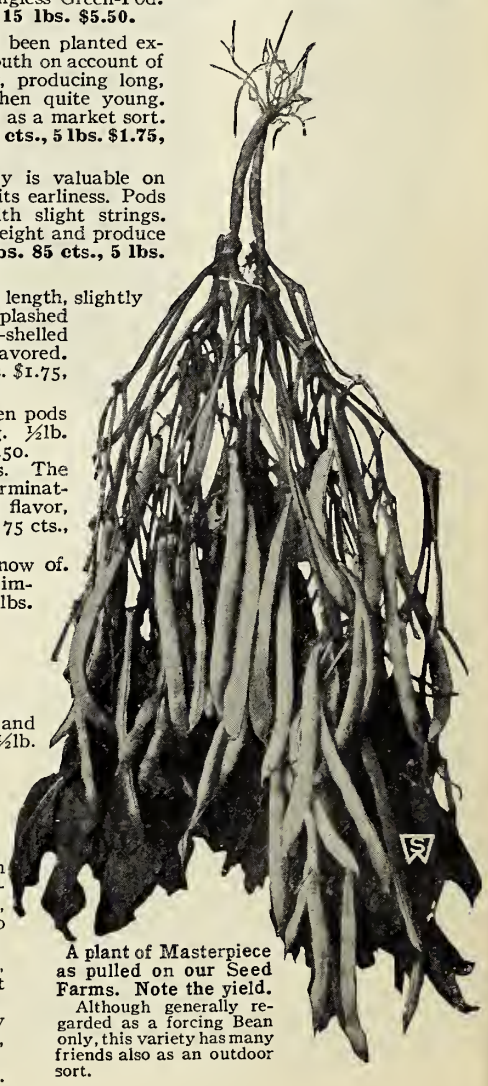
FORCING BEANS

Masterpiece. We offer the true strain of this fine English variety, carefully grown by experts under our supervision. Masterpiece is of splendid constitution, a quick grower and very prolific, the pods attaining a length of over 7 inches, straight, tender, meaty and stringless. As a quick grower under glass, Masterpiece is difficult to beat. Bean thick-flat. **½lb. 60 cts., lb. $1, 2 lbs. $1.85, 5 lbs. $4.50, 15 lbs. $12.**

S. & W. Co.'s Wonder. Of fine color and refined flavor. The pods are round, average 6 inches in length, and they are borne in great abundance. **½lb. 35 cts., lb. 60 cts., 2 lbs. $1.10, 5 lbs. $2.50, 15 lbs. $6.50.**

Magpie. Largely grown under glass; suitable also for the open ground. Fine quality pods are produced in abundance. Pkt. 25 cts., ½lb. 45 cts., lb. 85 cts., 2 lbs. $1.50, 5 lbs. $3.40, 15 lbs. $9.

French Flageolet. Imported seed. ½lb. 45 cts., lb. 85 cts., 2 lbs. $1.50, 5 lbs. $3.40.



A plant of Masterpiece as pulled on our Seed Farms. Note the yield. Although generally regarded as a forcing Bean only, this variety has many friends also as an outdoor sort.

DWARF or BUSH WAX-PODDED BEANS

One pound will plant 100 feet of drill

If ordered alone add for mailing, 5 cts. per ½lb., 10 cts. per lb., 15 cts. per 2 lbs.

Sure-Crop Stringless Wax. The plant grows to a large size and, having a strong, thick stem, stands up well even during a long season of stormy weather, thus protecting the pods from dirt and dampness. It is very productive, bearing in great abundance large, handsome, golden yellow pods which are stringless and tender at all stages of development. Being very hardy, the seed may be planted early. **Sure-Crop** is more rust-proof and will stand a longer season of damp, wet weather than any other Stringless Wax Bean. **½lb. 25 cts., lb. 45 cts., 2 lbs. 85 cts., 5 lbs. $2, 15 lbs. $5.50.**

Hardy Wax. One of the best round-podded stringless Wax Beans ever evolved. The plants have thick, leathery leaves which resist cold, blight and plant diseases to a marked degree. Within 65 or 70 days of planting, Hardy Wax bears immense crops of slightly curved deep yellow pods. Remains in bearing for a remarkably long period. **½lb. 25 cts., lb. 45 cts., 2 lbs. 85 cts., 5 lbs. $2, 15 lbs. $5.50.**

Brittle Wax. Without a doubt the earliest of all Wax Beans; also a great cropper. The bushes are remarkably hardy and extremely prolific, while the pods are fleshy and entirely stringless, often measuring 4½ to 6 inches long. They are round and solid, tender, brittle and entirely stringless at all stages of growth. The pods have white seeds showing only a small black dot at the eye and where a surplus is allowed to ripen fully they make excellent Shell Beans. **½lb. 25 cts., lb. 45 cts., 2 lbs. 85 cts., 5 lbs. $2, 15 lbs. $5.50.**

New Kidney Wax. The fleshy pods are flattened in form, from 6 to 7 inches in length, ½inch broad and ⅜inch thick; the color is a rich lemon-yellow. Under ordinary field culture the plants produce nearly twice as many pods as the Wardwell. The pods are remarkable for their meatiness, fine flavor, brittleness and absolute freedom from strings or tough fiber. **½lb. 30 cts., lb. 50 cts., 2 lbs. 90 cts., 5 lbs. $2.10, 15 lbs. $5.75.**

New Hodson Wax. A distinctly late variety, bearing enormous quantities of flat but fleshy pods of a creamy yellow color. The plant is vigorous, and comes into bearing in from 80 to 85 days from date of sowing the seeds. The pods of this variety often measure 7 to 8 inches in length and are remarkably free from spot or rust. **½lb. 25 cts., lb. 45 cts., 2 lbs. 85 cts., 5 lbs. $2, 15 lbs. $5.50.**

Improved Golden Wax. A very early variety with flat, golden pods. Pkt. 10 cts., ½lb. 25 cts., lb. 45 cts., 2 lbs. 85 cts., 5 lbs. $2, 15 lbs. $5.50.

Improved Black Wax. The pods are round, and they are yielded in large quantities; early. ½lb. 25 cts., lb. 45 cts., 2 lbs. 85 cts., 5 lbs. $2, 15 lbs. $5.50.

Davis White Wax. Long, straight, handsome pods. The seed is white and excellent for green shelling and for baking. ½lb. 25 cts., lb. 45 cts., 2 lbs. 85 cts., 5 lbs. $2, 15 lbs. $5.50.

Wardwell Kidney Wax. Extra early; long, flat, waxy pods. ½lb. 25 cts., lb. 45 cts., 2 lbs. 85 cts., 5 lbs. $2, 15 lbs. $5.50.



Hardy Wax. A new, stringless, round-podded variety remarkable for its heavy yielding properties. See text above.



Sure-Crop Stringless. A fine flat-podded Wax Bean

BROAD BEANS

Differs from American types in that they should be planted *early*. Select strong land and spray continuously against aphis and blight. Not recommended for the home-garden.

S. & W. Co.'s Long-Pod. The pods reach a length of 12 inches and contain seven to eight Beans.

S. & W. Co.'s Windsor. The heavy pods are produced in pairs and contain three to four large Beans.

Each of the above, ½lb. 30 cts., lb. 50 cts., 2 lbs. 90 cts., 5 lbs. $2.10, 15 lbs. $5.75.

POLE or RUNNING BEANS

One pound will plant 200 hills

Old Homestead (Green Kentucky Wonder). An improved sort of this well-known Bean. The pods are entirely stringless and of silvery green color, hanging in large clusters from the top to the bottom of the pole. One of the most prolific. **Pkt. 10 cts., ½lb. 25 cts., lb. 45 cts., 2 lbs. 85 cts., 5 lbs. $2, 15 lbs. $5.50.**

Golden Cluster Wax. The leading early Wax Pole Bean. Pods are tender and of fine flavor. Few Beans equal this as a "snap sort" while young, or as a dry, pure white Shell Bean for winter use. **Pkt. 10 cts., ½lb. 30 cts., lb. 50 cts., 2 lbs. 90 cts., 5 lbs. $2.10, 15 lbs. $5.75.**

Lazy Wife. Green-Pod. The best late, green-podded Pole Bean. Pods medium dark green, broad, thick, very fleshy and entirely stringless. ½lb. 25 cts., lb. 45 cts., 2 lbs. 85 cts., 5 lbs. $2, 15 lbs. $5.50.

Scarlet Runner. Green-Pod. Bright scarlet flowers. Pkt. 10 cts., ½lb. 25 cts., lb. 45 cts., 2 lbs. 85 cts., 5 lbs. $2, 15 lbs. $5.50.

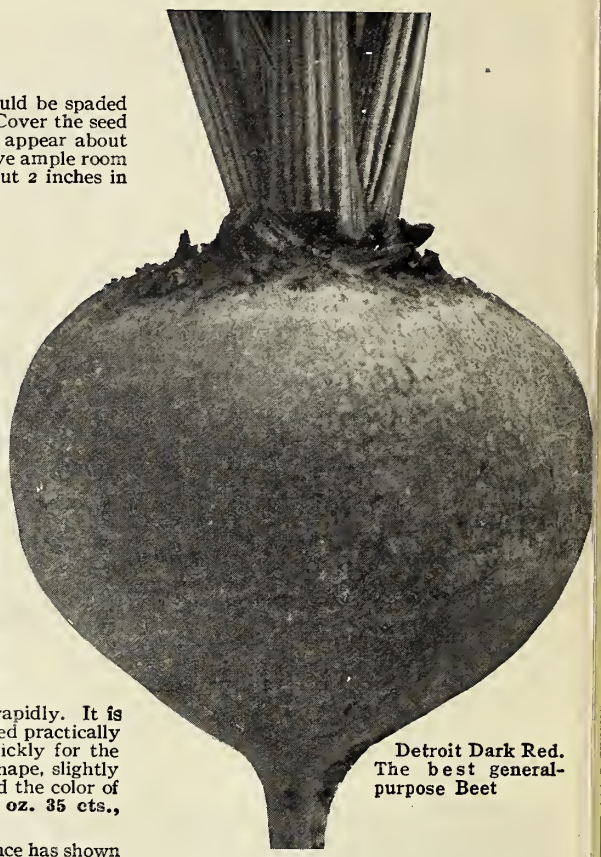
Yard-Long Asparagus. A remarkable Bean, yielding narrow rounded pods of enormous length. The quality is excellent. Pkt. 15 cts., ½lb. 60 cts., lb. $1, 2 lbs. $1.85, 5 lbs. $4.50.

NOTE. We now offer Beans by weight instead of measure: one pound is equal to about one pint, two pounds to about one quart.

BEETS

One ounce will sow 100 feet of drill; 5 to 6 pounds to the acre

CULTURE.—Seed should be sown the latter part of April. The ground should be spaded well and deep, placing rows about 18 inches apart, and the drills 1 inch deep. Cover the seed carefully and firm in the ground by walking over the drills. When seedlings appear about 3 inches above ground, thin out to about 4 inches between the plants so as to give ample room for the proper development of the bulbs. Beets are best for pulling when about 2 inches in size. Successive sowings may be made up to the middle of July.



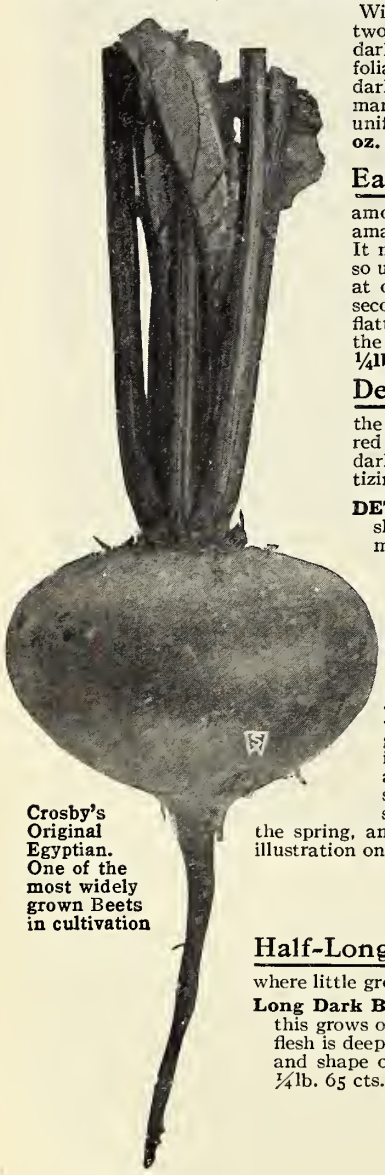
Detroit Dark Red. The best general-purpose Beet

ROUND TYPES

Eclipse. An extra-early sort which produces Beets sixty days from sowing. Of uniform, dark rosy red; top-shaped; easily pulled. Flesh dark purplish red with rose zones; remains in table condition for ten days, when it becomes tough. **Pkt. 10 cts., oz. 20 cts., ¼lb. 55 cts., lb. $1.50.**

Extra-Early Egyptian. A variety which grows very quickly, producing roots of fine quality, flat and smooth. They are pulled when 2 inches in diameter. **Pkt. 10c., oz. 20c., ¼lb. 55c., lb. $1.50.**

Crosby's Original Egyptian. One of the most widely grown turnip-shaped Beets in cultivation today. Will produce Beets ready for pulling within two or three days after Eclipse. The smooth, dark red roots are topped with light green foliage, which is prominently speckled with dark red. The flesh is carmine, handsomely marked with white zones, very tender and of uniformly sweet quality. **Pkt. 10 cts., oz. 20 cts., ¼lb. 55 cts., lb. $1.50.**



Crosby's Original Egyptian. One of the most widely grown Beets in cultivation

Early Wonder. A variety which has gained wide popularity among market-gardeners, and one which the amateur may also grow with every confidence. It may be sown early, and it matures very rapidly. It is so uniform in growth that the crop can be lifted practically at one time, yielding the land early and quickly for the second crop. The root is nearly globular in shape, slightly flattened. The leaves are of medium size, and the color of the flesh is deep blood-red. **Pkt. 15 cts., oz. 35 cts., ¼lb. $1, lb. $3.**

Detroit Dark Red. Extended experience has shown that this Beet comes nearer the ideal than any other, and where but one variety is used this should be the first choice. The round, dark red globe roots are uniformly smooth. The flesh of the very young Beets is almost black-red, turning to dark crimson with dark purple zones as the Beets grow larger. When cooked, the Beets are of an appetizing dark red and very sweet. **Pkt. 10 cts., oz. 25 cts., ¼lb. 65 cts., lb. $1.75.**

DETROIT DARK RED, Exhibition Strain. This is specially reselected for depth of color, uniformity of shape, and general refinement. It is developed particularly to meet the requirements of the exhibitor and market-gardener. Pkt. 15 cts., oz. 35 cts., ¼lb. 90 cts., lb. $2.50.

Crimson Globe. In about 70 days from planting one-fourth of the Beets in the Crimson Globe row will be ready for table use. A peculiarity of this and the next variety is that the Beets do not all come to the eatable size at the same time, some growing faster than others, thereby lengthening the period of perfection. Flesh bright red with light purple zones. Pkt. 10 cts., oz. 25 cts., ¼lb. 65 cts., lb. $1.75.

Edmand's Blood Turnip. Very regular in shape, deep blood-red, and exceedingly sweet. Pkt. 10 cts., oz. 25 cts., ¼lb. 65 cts., lb. $1.75.

S. & W. Co.'s Winter Keeper. A distinct strain of a main-crop, globe-shaped Beet produced by many years of painstaking selection on the part of a grower who takes particular pride in striving after high ideals in seed selection. Two leading characteristics make this Beet worthy of any gardener's time and space: the uniformly excellent flavor of its flesh at all stages of development and the remarkable manner in which this quality is preserved during winter storage. Beets are almost globe-shaped, tapering somewhat toward the root. The flesh is dark red, sweet and tender at all stages of growth regardless of size. They may be stored in a cellar or pit until the spring, and will cook more tender and sweet than ordinary varieties will when taken from the garden. (See illustration on opposite page.) **Pkt. 20 cts., oz. 65 cts., ¼lb. $1.75, lb. $5.**

HALF-LONG AND LONG TYPES

Half-Long Blood. An entirely distinct variety. The roots are symmetrical, somewhat pear-shaped, smooth and handsome; flesh a rich, dark red, very sweet, never becoming woody. Economical where little ground is available. **Pkt. 10 cts., oz. 25 cts., ¼lb. 65 cts., lb. $1.75.**

Long Dark Blood. (Out of ground.) A late variety the root of which is over a foot long. Five inches or more of this grows out of the ground, and the harvesting of the Beet is therefore not attended with much difficulty. The flesh is deep red in color, sweet, and of high quality; it keeps in fine condition through into the winter, and its size and shape obviously make it the most economical sort where garden space is limited. Pkt. 15 cts., oz. 25 cts., ¼lb. 65 cts., lb. $1.75.

Cow Beets (Mangels) and Sugar Beets

See Root Crops on pages 54 and 55



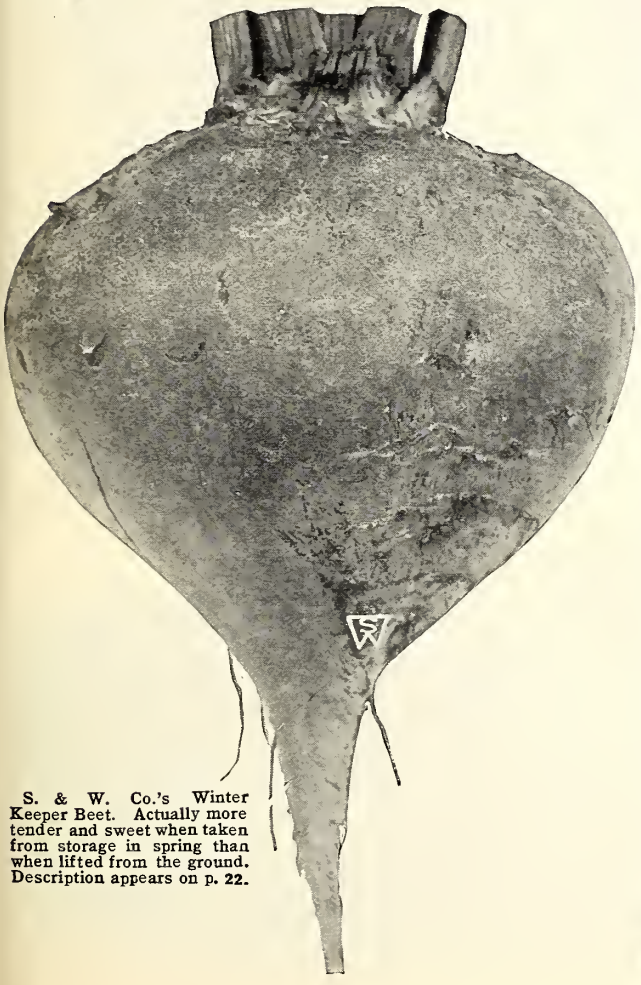
S. & W. Co.'s Favorite Brussels Sprouts

BRUSSELS SPROUTS

One ounce will produce about 3,000 plants

CULTURE.—Sow in May, in shallow drills, 1 inch deep and 12 inches apart. Transplant in July. When the crown, or top sprout is beginning to head, pinch it out, to admit of the whole strength being thrown into the side shoots. Very hardy. This is a delicious vegetable and should find a place in every garden; greatly improved by first frosts.

S. & W. Co.'s Favorite. New. Semi-dwarf, thickly covered with sprouts by the end of September; excellent. Pkt. 20 cts., oz. 75 cts., ¼lb. $2.



S. & W. Co.'s Winter Keeper Beet. Actually more tender and sweet when taken from storage in spring than when lifted from the ground. Description appears on p. 22.

CARDOON

A vegetable that is grown somewhat like celery and served after the manner of asparagus. Sow in the open ground in May, and thin or transplant the seedlings so that they stand 2½ feet, one from the other, in rows 4 feet apart. A catch-crop such as beans, lettuce or beets may be taken between the rows. At the end of the summer, and two or three weeks before using, it is necessary to blanch the Cardoons. The heads of the plants are tied together, straw is piled against them, and the surrounding soil is then heaped up against the straw. **Pkt. 15 cts., oz. 45 cts., ¼lb. $1.30, lb. $3.50.**

CHERVIL

One ounce will sow 150 feet of drill

CULTURE.—The curled Chervil is cultivated like parsley and used for garnishing and flavoring soups and salads.

Moss Curled Extra. Pkt. 10c., oz. 35c., ¼lb. 90c., lb. $2.50.

CRESS

(Pepper Grass)

One ounce will sow 100 feet of drill

CULTURE.—Sow early in the spring. The leaves are crisp, tender, and pungent in flavor. Sow at short intervals for succession, as it soon runs to seed.

Curled, or **Pepper Grass.** Pkt. 10 cts., oz. 20c., ¼lb. 55 cts., lb. $1.50.

True Erfurt Water Cress. Pkt. 15 cts.; ½oz. 40 cts., oz. 65 cts., ¼lb. $1.75, lb. $5.

CHICORY

Witloof, or French Endive.

A winter salad, most delicious served with French dressing and eaten like Cos lettuce. The seed should be sown in the open ground not later than June, in drills 12 to 18 inches apart, thinning out the plants so that they will not stand closer than 3 inches. The plant forms long, parsnip-shaped roots, which should be lifted in the fall, cutting off the leaves about 1½ inches from the neck and shortening the roots by cutting off the bottoms to within 8 inches of the neck. The roots should then be planted in a trench 16 to 18 inches deep in a dark, warm cellar or under a greenhouse bench, and placed upright about 1½ to 2 inches apart, which will allow the neck of the root to come within 9 inches of the level of the trench. The trench should be filled with a light soil, and if a quicker growth is desired, this can be accomplished by a mulch of fresh manure about 2 feet deep. It requires about one month to force the roots. **Pkt. 10 cts., oz. 45 cts., ¼lb. $1.30, lb. $3.50.**



Witloof, or French Endive. From seeds sown in spring or early summer, roots are produced, and from these roots the well-known Witloof is forced during winter.

Common or **Wild** (Barbe de Capucin). Pkt. 15 cts., oz. 55 cts., ¼lb. $1.50, lb. $4.

Large-rooted Magdeburg. Cultivated for the roots. Pkt. 10 cts., oz. 45 cts., ¼lb. $1.30, lb. $3.50.

For Endive, see page 32

WITLOOF ROOTS for forcing are offered on page 52.

CABBAGE

One ounce will produce about 3,000 plants

CULTURE.—Sow early kinds in hotbeds in February and March, and in the open ground during April and May. Late varieties for fall and winter use should also be sown in May. Early sorts may be planted in rows 2 feet apart, with 20 inches between plants in the row; late kinds should stand at least 2 feet each way. To be well grown, Cabbages require a deep, rich, loamy soil, but should it be too rich some late kinds may show signs of bursting. If this occurs, push the plants over to one side and so check their growth.

Disease germs may occasionally be carried on the seed-coats, but in the majority of cases club-root and other troubles are caused by growing Cabbages in infected soil. Growers of Cabbage in quantity are advised to sterilize their seed before sowing by dusting with "Semesan" powder (2-oz. bottle 50 cts.). Place the cabbage seed in a jar with a small quantity of the preparation and shake vigorously for several minutes. Seed-beds may also be sterilized by drenching the soil with a 1 to 100 or 1 to 200 solution of formaldehyde (bottle 50 cts.) at the rate of ¾gallon per square foot, or it may be steamed. In the field, crop rotation is to be recommended, and the land regularly limed.



Improved Jersey Wakefield Cabbage

EARLY AND MIDSEASON

S. & W. Co.'s Famous Early Conical.

An extremely early variety of conical form, quite distinct from any other on the market. An ideal sort for private gardens, producing solid heads sooner than other varieties and requiring less space than most kinds. **Pkt. 20 cts., ¼oz. 50 cts., ½oz. 85 cts., oz. $1.50, ¼lb. $4.**

Improved Early Jersey Wakefield. While this variety is not quite so early as S. & W. Co.'s Famous Early Conical, it has been long considered as the best early conical-type Cabbage which we have. The heads are hard and solid with just a few outside leaves, which are unusually thick, enabling them to stand cold weather when wintered in coldframe. **Pkt. 10 cts., ½oz. 30 cts., oz. 55 cts., ¼lb. $1.50.**

Charleston, or Large-Type Wakefield. Retains all the characteristics of the Improved Early Jersey Wakefield with the added advantage of greater size. **Pkt. 15 cts., ½oz. 40 cts., oz. 65 cts., ¼lb. $2.**

Babyhead. Extreme earliness and small size are characteristic of this new variety. The head is less than 6 inches across, round, firm, and of splendid mild cooking quality. The outer leaves are few and small, and the stem is short. Babyhead is recommended as the first to reach the table when grown outdoors, and also for growth under glass, for which purpose it is ideal. **Pkt. 25 cts.**

Copenhagen Market. The best of all early Cabbages. Stands longer without bursting than other early sorts. Everyone familiar with the Cabbage knows the old and popular Danish Ballhead, the best of all late Cabbages. This new extra-early variety, ripening with Charleston Wakefield, also originated in Denmark, and is as good, in its class, as the old favorite Danish Ballhead. The stem is short, the head round and solid. When ready for cutting, Copenhagen Market is the heaviest of the extra-early varieties, and if left until fully mature, frequently weighs 8 to 10 pounds. The leaves are small, compact and close to the head, so it will stand close planting. The inside is fine-grained, tender, pure white and compact. A leader for the home-garden and market. **Pkt. 15 cts., ¼oz. 40 cts., ½oz. 60 cts., oz. $1, ¼lb. $3.50.**

Succession. A splendid second-early, round-headed sort, with enormous heads of exceedingly tender quality. Pkt. 15c., ¼oz. 40c., ½oz. 60c., oz. $1, ¼lb. $3.50.

Early Summer. Pkt. 15 cts., ½oz. 40 cts., oz. 65 cts., ¼lb. $2.

LATE CABBAGES FOR WINTER STORAGE

Danish Drumhead. Averages much larger size than the Ballhead; is about two weeks earlier. The round heads are very solid, fine-grained and sweet-flavored. The best Cabbage for winter use, and a variety which we recommend most highly. **Pkt. 15 cts., ¼oz. 40 cts., ½oz. 60 cts., oz. $1, ¼lb. $3.50.**

Large Late Flat Dutch. One of the most reliable in cultivation for winter use; produces immense heads of the finest quality; splendid keeper. Pkt. 10 cts., ½oz. 30 cts., oz. 55 cts., ¼lb. $1.50.

RED CABBAGES

Mammoth Rock Red. This is by far the best, largest and surest heading Red Cabbage ever introduced. The plant is handsome, with numerous spreading leaves. The head is large, round, very solid. Pkt. 15 cts., ¼oz. 40 cts., ½oz. 60 cts., oz. $1, ¼lb. $3.50.

Zenith Red. (See Novelties, page 14.) Pkt. 15 cts., ¼oz. 40 cts., ½oz. 60 cts., oz. $1, ¼lb. $3.50.

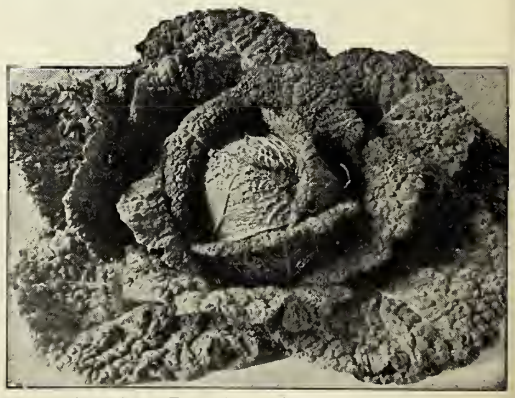
SAVOY CABBAGES

American Drumhead Savoy. A superior variety. Hearts solid, large, and well-shaped, and in table quality resemble the better garden Cabbages. None of the late-growing varieties can begin to equal this sort for family use. Pkt. 15 cts., ½oz. 35 cts., oz. 60 cts., ¼lb. $1.75.

Early Cone Savoy. (See Novelties, page 14.) Pkt. 20 cts., ¼oz. 45 cts., ½oz. 75 cts., oz. $1.25, ¼lb. $4.

PE-TSAI, CHINESE or "CELERY" CABBAGE

Pe-Tsai produces beautiful, crisp, celery-like heads that somewhat resemble Cos lettuce. **Pkt. 15 cts., ½oz. 30 cts., oz. 55 cts., ¼lb. $1.50.**



American Drumhead Savoy Cabbage



Selected Danvers Carrot

CARROT

One ounce will sow 100 feet of drill

CULTURE.—To produce the finest crop, the land should be thoroughly manured the previous season; forked roots will result if the seed is sown on freshly manured soil. Sow the early sorts in March and April, in drills 1 inch deep and 14 inches apart; thin out to 4 inches. For main crop sow in May or beginning of June. Care should be taken, at all times, to see that soil is firm over the seeds, either by means of the feet, roller, or garden drill.

BEST EARLY KINDS

Early French Forcing. The earliest variety and the one largely grown for forcing purposes. It makes a small, almost globe-shaped root of an orange-red color. Pkt. 15 cts., oz. 40 cts., ¼lb. $1.10, lb. $3.

Early Half-Long Scarlet Nantes. The skin is smooth, flesh red, and without any core or heart. It is excellent for forcing, and for fine quality and perfect shape can hardly be surpassed. Pkt. 15 cts., oz. 40 cts., ¼lb. $1.10, lb. $3.

Oxheart, or **Guerande.** It is intermediate between Half-long and Horn varieties, and perfectly distinct. The shape is nearly oval and the color and quality all that can be desired. Pkt. 10 cts., oz. 30 cts., ¼lb. 75 cts., lb. $2.

Selected Chantenay. A very splendid type of the half-long, stump-rooted Carrot. Averages 5½ to 6 inches in length, broad at the neck, narrowing gradually to a blunt end. The flesh is rich orange-red, free from core, tender, fine flavored, and of excellent table quality. **Pkt. 10 cts., oz. 30 cts., ¼lb. 75 cts., lb. $2.**

Early Scarlet Horn. Favorite for early crop but not large. Considered a good, general-purpose, all-season variety, since, sown late in the season, the roots are firm enough for winter storage. Sometimes used for forcing. Pkt. 10 cts., oz. 35 cts., ¼lb. 90 cts.. lb. $2.50.

S. & W. Co.'s Melting Marrow. (See Novelties, page 15.) Pkt. 15 cts., oz. 55 cts., ¼lb. $1.50, lb. $4.

LATE SORTS

Particularly Suitable for Winter Use

Selected Danvers. A handsome, cylindrical-shaped Carrot of good size and stump-rooted. It is of a rich, dark orange color, grows to large size, is smooth, and has little core. It is a first-class Carrot for all soils, yields a greater weight per acre than any other variety, and is more easily harvested than the old long varieties. This selected stock we are now offering has been specially grown for market-gardeners and is sure to give satisfaction. **Pkt. 10 cts., oz. 30 cts., ¼lb. 75 cts., lb. $2.**

S. & W. Co.'s Improved Long Red Surrey. A great improvement on the various types of Long Orange Carrot obtained by a careful selection, for successive years, of the best-formed and deepest-colored roots. It is larger, better-flavored, of a deeper orange color, and more certain to produce a crop than any type of long Carrot; flesh very sweet and tender; very productive, and never becomes hard or woody at the heart. The roots grow very regular and smooth; they are of good size, being from 6 to 8 inches in length and 2 inches in diameter at the top, tapering gradually from the shoulder to the tip of the roots. In color, shape or size, this is the ideal sort for market-gardener's late crop. **Pkt. 10 cts., oz. 35 cts., ¼lb. $1, lb. $3.**

Selected Long Orange Improved. One of the most desirable for either garden or field culture; it grows to a large size, fair specimens averaging 12 inches in length and 3 inches in diameter at the top. Pkt. 10 cts., oz. 25 cts., ¼lb. 65 cts., lb. $1.75.

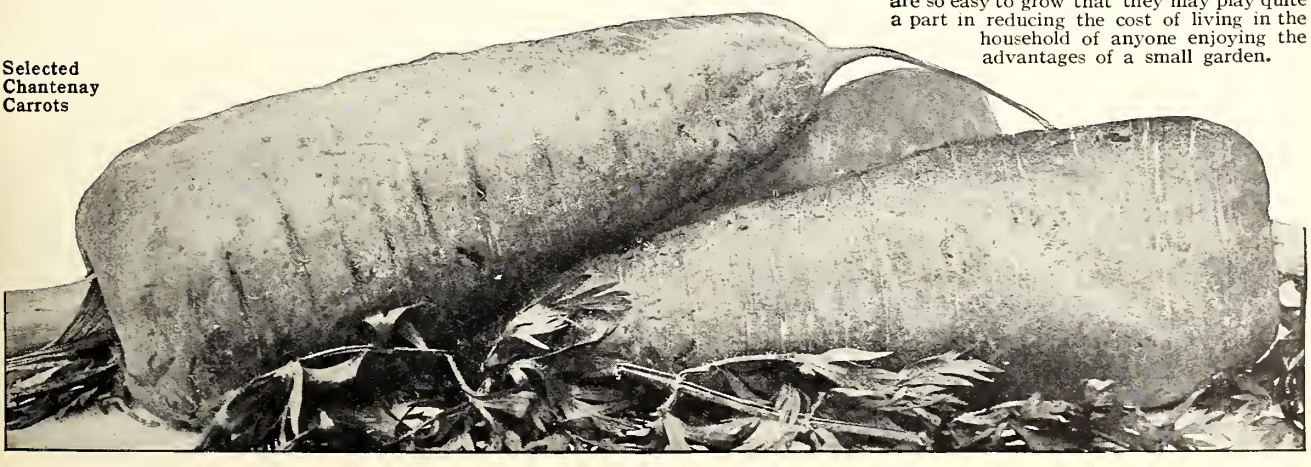
S. & W. Co.'s New Red Intermediate. This is certainly the best main-crop Carrot. It is one of the most uniform in shape that we know, and where the soil is favorable, it will always grow clean and free from side roots. The core is small and very tender, and there is no indication of woody character at any stage of its growth. It is also entirely free from any coarse, rank flavor so common with many sorts. For private purposes it is ideal, and its yielding capacity is enormous, which, with its handsome color and fine appearance, makes it invaluable to truckers. Pkt. 10 cts., oz. 35 cts., ¼lb. 90 cts., lb. $2.50.

TWO CARROTS FOR PRIZE-WINNING

Exhibition Chantenay, Exhibition Danvers. Two fine strains of these standard varieties that have been specially grown and selected for exhibition purposes. Each, pkt. 15 cts., oz. 55 cts., ¼lb. $1.50, lb. $4.

Grow More Root Crops. There is a wealth of satisfaction in being able to go to your root cellar or "pit" in the garden during the winter months and dig up vegetables that sell on the market at 10 to 25 cents for a bunch of five. Their liberal use is most essential to our physical welfare. And they are so easy to grow that they may play quite a part in reducing the cost of living in the household of anyone enjoying the advantages of a small garden.

Selected Chantenay Carrots



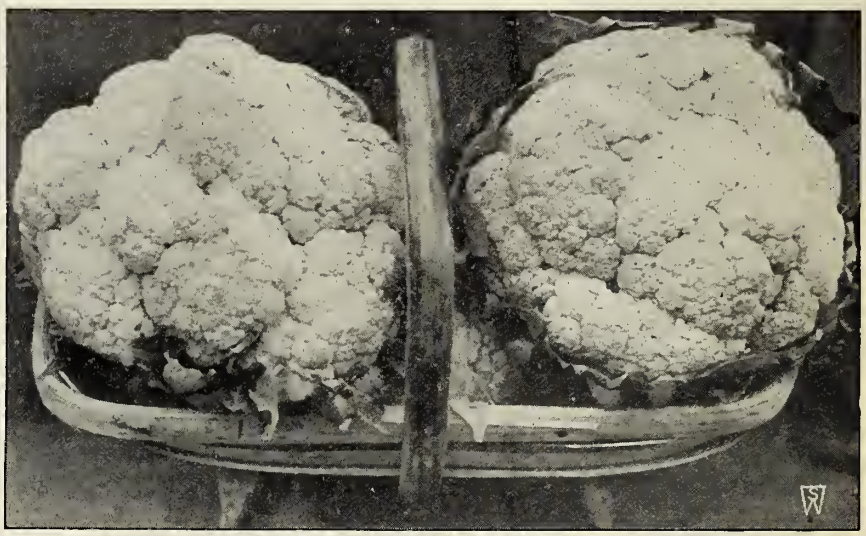
CAULIFLOWER

One ounce will produce about 3,000 plants

CULTURE.—Sow the first week in May and prick out on a rich piece of ground; transplant in July. For wintering under glass sow in the second and last weeks in September; transplant thickly into a cold pit or frame; give plenty of air in mild weather, and cover up well when conditions are severe. Again sow in February in a hotbed and transplant in April. For Cauliflower the ground should be well prepared by trenching, incorporating at the same time a good share of rotten manure. Select new ground, if possible, as Cauliflower rarely succeeds on soil which has been cropped year after year with other kinds of vegetables. Plant in rows 20 inches apart and 2 feet between the rows. To be successful with this vegetable, rich soil and abundant moisture at all stages of development are absolutely essential. Cauliflower does not form solid heads in hot, dry climates.

The Best Early Cauliflower. S. & W. Co.'s Best of All.

The easiest grown and surest heading Cauliflower offered today. In habit the plant is very dwarf, stocky, and erect. It has very few outer leaves and, as a consequence, the young Cauliflower plants may be planted less than 2 feet apart each way. All that is necessary is to select suitable soil, when every plant will form a large, solid, perfect head of the finest table quality and of handsome appearance. **Pkt. 25 cts., ⅛oz. $1, ¼oz. $1.75, ½oz. $3.25, oz. $6.**



S. & W. Co.'s Best of All Cauliflower



Early Snowball. An all-the-year-round Cauliflower, being suitable alike for forcing, for spring use out-of-doors, and for latest fall crops

Early Snowball. This wonderful, sure-heading variety is of characteristic dwarf habit, the outer leaves being small, hence it is particularly adapted to growing under glass during winter and spring. Snowball is the most popular Cauliflower grown in America today, and the S. & W. strain is used so largely by commercial growers because of the solidity and purity of its head, its large size, and its uniform reliability. **Pkt. 20 cts., ⅛oz. 70 cts., ¼oz. $1.25, ½oz. $2.25, oz. $4.**

Danish Dry Weather. Especially adapted to sections subject to dry seasons. The heads grow to a large size, are very solid, pure white and of delicious flavor. It will prove valuable for growing in the southern states, where the climate is hot and long seasons of dry weather are experienced. **Pkt. 20 cts., ⅛oz. 85 cts., ¼oz. $1.50, ½oz. $2.50, oz. $4.50.**

Extra-Early Dwarf Erfurt. This Cauliflower is an extra-early sort, of dwarf habit, and desirable for forcing or planting in the open ground. Pkt. 20 cts., ⅛oz. 70 cts., ¼oz. $1.25, ½oz. $2, oz. $3.50.

Autumn Giant. This is a larger and later type than the above varieties. It is popular in South America and the warmer parts of this country, though many growers in this section also find that it suits their requirements. Autumn Giant is tall and sturdy, needing in consequence more room to develop than the early types. **Pkt. 10 cts., ¼oz. 40 cts., ½oz. 60 cts., oz. $1.**

Suggestions for Soil Improvement

Plow under a green crop for Cauliflower and other plants that need added humus in the soil. It will retain plant-food, hold moisture, and is the best adjunct to—or substitute for—animal manure. Do not allow even the smallest amount of land to remain idle, but sow a cover crop as soon as a space becomes available, preferably allowing the cover crop to stand over the winter, and plowing or digging it under in the spring.

Suitable crops to plant for turning under, used either alone or in combination, are:

	Quantity per acre when sown alone	Quantity per 100 sq. yds.	Price subject to market changes		
SPRING SEEDING			Lb.	10 lbs.	100 lbs.
Spring Vetch	100 lbs.	2 lbs.	$0 20	$1 25	$10 00
			Qt.	Pk.	Bus.
Canada Field Peas	3 bus.	3 qts.	$0 30	$1 50	$5 25
Spring Rye	2 bus.	2 qts.	25	1 25	3 75
SUMMER SEEDING					
Soy Beans	2 bus.	2 qts.	25	1 35	4 00
Cowpeas, Whippoorwill	2 bus.	2 qts.	30	1 50	4 50
Japanese Buckwheat	2 bus.	2 qts.	20	90	3 00
EARLY FALL SEEDING					
Winter Rye	2 bus.	2 qts.	25	1 25	3 50
Winter Wheat	2 bus.	2 qts.	30	1 50	4 50
			Lb.	10 lbs.	100 lbs.
Winter or **Hairy Vetch**	100 lbs.	3 lbs.	$0 35	$3 00	$25 00

CELERY

One ounce will produce 3,000 plants

CULTURE.—Sow the seed in a coldframe or dry border as early as the ground can be worked, in drills 8 to 10 inches apart, covering the seed ¼inch deep. When fairly out of the seed-leaf, they may be transplanted to another bed or thinned out to 5 or 6 inches apart, and allowed to grow until wanted for transplanting out into the beds or trenches. Early in July is the proper time to set out the plants in the trenches, or as soon after early July as possible. Rows or double rows should be 3 feet apart and the plants set about 8 inches apart in the row. As the plants grow, they should be boarded or earthed up to blanch them. For keeping over the winter, they can be banked up with earth and covered over with litter to protect from frost where they have grown, placing boards on top to keep out the rain.



A Wheelbarrow Load of Golden Plume Celery. Earliness, crispness, and general refined quality are the characteristics of Golden Plume Celery. Under high cultivation, too, the variety grows to a large size. This head of Golden Plume measures 21 inches in circumference and weighs 7½ pounds trimmed. It was grown at Port Monmouth, N. J.

SELF-BLANCHING VARIETIES

New Golden Plume and New Earligreen. These two exclusive Stumpp & Walter introductions are both fully described on page 15. **Golden Plume.** Pkt. 25c., ⅛oz. $1.10, ¼oz. $2, ½oz. $3.50, oz. $6. **Earligreen.** Fully described on page 15. Pkt. 25 cts.

Improved White Plume. One of the most popular. It is tender and of the very best flavor. **Pkt. 15 cts., ½oz. 60 cts., oz. $1, ¼lb. $2.75, lb. $7.50.**

Paris Golden Self-Blanching. The plant is compact and stocky, with light, golden green leaves. It produces stalks which are solid, brittle, and possess a fine nutty flavor. The plant blanches quickly to a beautiful golden yellow. Our stock is grown in France by the originator, and is free from plants of the green type. A splendid early Celery, for the family garden, and widely used by the commercial grower. **Pkt. 25 cts., ½oz. $1, oz. $1.75, ¼lb. $5, lb. $14.**

WELL-KEEPING WINTER VARIETIES

New Easy-Blanching. This variety is somewhat suggestive of Golden Self-blanching, but it is green in color and a larger plant; the leaves blanch white. One of the easiest of all Celeries to grow, it is as good a keeper as any late sort, though maturing but two weeks later than Paris Golden. The flesh is crisp and brittle, the flavor particularly attractive. New Easy-blanching combines ease of cultivation, early maturity, high quality, and good keeping properties. Seed grown by the originator, one of the leading Celery growers for the New York market. **Pkt. 25 cts., ¼oz. 75 cts., ½oz. $1.25, oz. $2, ¼lb. $6.50.**

Winter Queen. Medium large, light green in color. Solid, crisp; blanches well and keeps well. Pkt. 10 cts., ½oz. 45 cts., oz. 80 cts., ¼lb. $2.20, lb. $6.

Giant Pascal. A deep green selection from the Golden Self-blanching Celery. The stalks are very large, thick, solid, and crisp. It has a fine, nutty flavor. Pkt. 10 cts., ¼oz. 30 cts., ½oz. 50 cts., oz. 85 cts., ¼ lb. $2.50.

Covent Garden Red. A splendid dark rose variety; large and of nutty flavor. Pkt. 25 cts., ½oz. 75 cts., oz. $1.25, ¼lb. $3.50, lb. $10.

Cutting Celery. (For Soup Greens.) A loose-growing type from which stalks may be cut continuously. Merely grow in good soil kept free from weeds; do not earth or blanch. Pkt. 10 cts., oz. 35 cts., ¼lb. $1.

Celery Seed. For flavoring soups, etc. Oz. 15 cts., ¼lb. 30 cts., lb. 75 cts.

CELERIAC, LARGE SMOOTH. A variety of celery with turnip-shaped roots, which are white fleshed, tender, and possess the flavor of celery stalks. **Pkt. 10 cts., oz. 55 cts., ¼lb. $1.50, lb. $4.**



Celeriac may be served cooked or as a salad



New Easy-Blanching may be whitened in a shorter time than any other Celery; will blanch up, in fact, in cold storage. It keeps better than most late varieties.

SUGAR CORN

One pound will plant 200 feet of drill or 200 to 300 hills

NOTE.—The American Seed Trade generally has adopted the cental system of pricing Corn, Beans, and Peas. We therefore offer by weight instead of measure. One pound of Corn is equal to about 1½ pints; 2 pounds to about 1½ quarts; the average weight of a bushel of Sweet Corn is 45 pounds.

CULTURE.—Plant for succession of crop every three weeks, from April to July, in hills 3 feet apart each way, and six seeds in a hill; cover about half an inch; thin out to three plants. **If ordered alone, add for mailing, 5 cts. per ½lb., 10 cts. per lb., 15 cts. per 2 lbs.**



Golden Bantam. The standard for quality by which others are judged

EARLY SORTS

Early Mayflower. Is fully a week or 10 days earlier than White Cory; and when we say that in size of ear, tenderness and sweetness of the kernels it is very noticeably superior to White Cory, we think we have said enough to indicate that the variety has distinct merits. The ears are long and well filled from tip to butt with large, tender, fine-flavored, white kernels. **½lb. 25 cts., lb. 40 cts., 2 lbs. 75 cts., 5 lbs. $1.75, 15 lbs. $4.75.**

Golden Bantam. Perhaps the sweetest Corn grown; *the* standard for quality by which others are judged. Plant attains a height of only 3 to 4 feet, usually bearing two or more ears to the stalk. The ears are compactly filled with kernels which when ready for the table are cream-yellow. Golden Bantam is one of the hardiest varieties of Corn grown, therefore it can be planted with safety earlier than other varieties. This characteristic also adapts it to localities having cool summer weather, a continuous supply being maintained by successive plantings. (See illustration of a typical ear.) **Pkt. 10 cts., ½lb. 25 cts., lb. 45 cts., 2 lbs. 85 cts., 5 lbs. $2, 15 lbs. $5.50.**

Honey Dew. (New.) The result of a cross between our Midget and Golden Bantam. The stocky space-saving habit of the former is combined with the sweetness of Bantam. The handsome ears are of medium size, white, and perfect in appearance. **Pkt. 20 cts., ½lb. 35 cts., lb. 65 cts., 2 lbs. $1.25, 5 lbs. $3.**

New Wonder Bantam. Grows 5 to 6 feet in height, bearing, high up on the stalk, ears which measure 8 to 10 inches in length. The ears are filled with 8 rows of rich, golden yellow, sugar-sweet kernels. Wonder Bantam has all the good qualities of Golden Bantam but is more vigorous, more productive, and yields larger ears. **Pkt. 15 cts., ½lb. 30 cts., lb. 50 cts., 2 lbs. 90 cts., 5 lbs. $2.10, 15 lbs. $5.75.**

Howling Mob. Is ready for use only 3 to 5 days later than the extra-early Cory when both are planted at the same time, but the ears are much larger in size, while the grains are much whiter and sweeter. As an early variety of large size, we cannot too highly praise Howling Mob. **Pkt. 10 cts., ½lb. 25 cts., lb. 45 cts., 2 lbs. 85 cts., 5 lbs. $2, 15 lbs. $5.50.**

Metropolitan. Combines the three essentials of a good Sugar Corn, namely, earliness, productiveness, and unusually superior flavor. The 10-rowed ears are 8 to 9 inches long and they are crowded with tender, melting grains. In our opinion the best early white Corn. **½lb. 25 cts., lb. 45 cts., 2 lbs. 85 cts., 5 lbs. $2, 15 lbs. $5.50.**

White-Cob Cory. A standard first-early variety. For a quick-growing sort the ears are large, and they are well filled with medium-sized grains. A favorite with the market-grower for his earliest crop. ½lb. 25c., lb. 40c., 2 lbs. 75c., 5 lbs. $1.75, 15 lbs. $4.75.

Crosby's Early. Ears good size; fine quality. ½lb. 25c., lb. 40c., 2 lbs. 75c., 5 lbs. $1.75, 15 lbs. $4.75.

Black Mexican. Very sweet; grains black. ½ lb. 25c., lb. 40c., 2 lbs. 75c., 5 lbs. $1.75, 15 lbs. $4.75.

Golden Wedding. A fine new Corn. See page 15. ½ lb. 30c., lb. 55c., 2 lbs. $1, 5 lbs. $2.25.

S. & W. Co.'s Midget. Dwarf variety with tiny ears. (See Novelties, page 15.) Pkt. 25 cts., 5 pkts. $1.

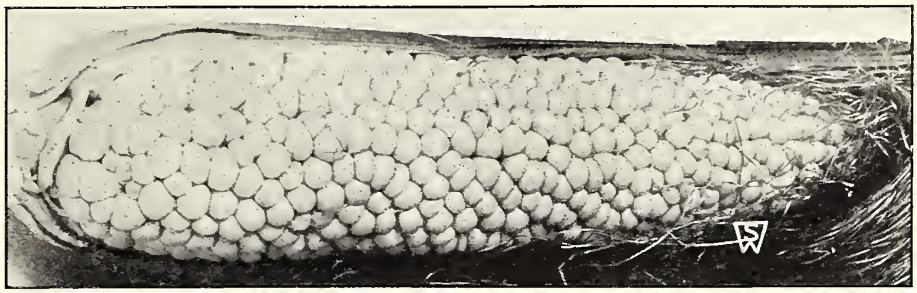
Semesan, Jr. Prevents and controls ear, root, and stalk-rots of Sweet Corn. Easily applied to Seed Corn at the rate of 3 ounces to the bushel of seed. **4 ozs. 60 cts., lb. $1.75, 5 lbs. $8.**



Earliness, productiveness, and superior flavor are combined in Metropolitan Sugar Corn

SUGAR CORN, LATE SORTS

Country Gentleman. Retains its delicate flavor and tenderness even when a little old, as the ears are encased in a heavy husk, which tends to keep the ear "in the milk" for several days longer than other varieties. The cob is unusually small and the pearly white kernels of great depth. **Pkt. 10 cts., ½lb. 25c., lb. 40 cts., 2 lbs. 75 cts., 5 lbs. $1.75, 15 lbs. $4.75.**



Country Gentleman is the "All meat" Corn. Its cob or core is smaller, and its grains are deeper than those of any other Corn

Stowell's Evergreen. Now recognized everywhere as a standard variety, both for home use and market, and is the general favorite. The ears are of large size, grains deep, exceptionally tender and sugary, and have the advantage of remaining longer in the green state than any other. Our stock has been carefully grown and selected to avoid the tendency to a shorter grain and deterioration in the evergreen character of this best of all late sorts. **Pkt. 10 cts., ½lb. 25 cts., lb. 40 cts., 2 lbs. 75 cts., 5 lbs. $1.75, 15 lbs. $4.75.**

Late Mammoth. Immense ears and very sweet. ½lb. 25 cts., lb. 40 cts., 2 lbs. 75 cts., 5 lbs. $1.75, 15 lbs. $4.75.
Long Island Beauty. A favorite among New York market-growers. ½lb. 25 cts., lb. 45 cts., 2 lbs. 85 cts., 5 lbs. $2, 15 lbs. $5.50.

Gather Corn Daily from June to October

WE OFFER THE FOUR MOST SATISFACTORY SORTS IN A SPECIAL "COLLECTION"

Our conception of the most reliable and sweetest varieties is represented in these Collections. They are prepared during November and December before our real spring selling season commences. We are thus able to give you the benefit of lower operating costs, and the purchase of these Collections is thus a real economy, the prices of the Collections being sensibly under the total cost were each sort purchased separately. The object of the Collection is defeated if changes are made, and we request that you do not ask us to make alterations.

The following four varieties are included in the assortment:

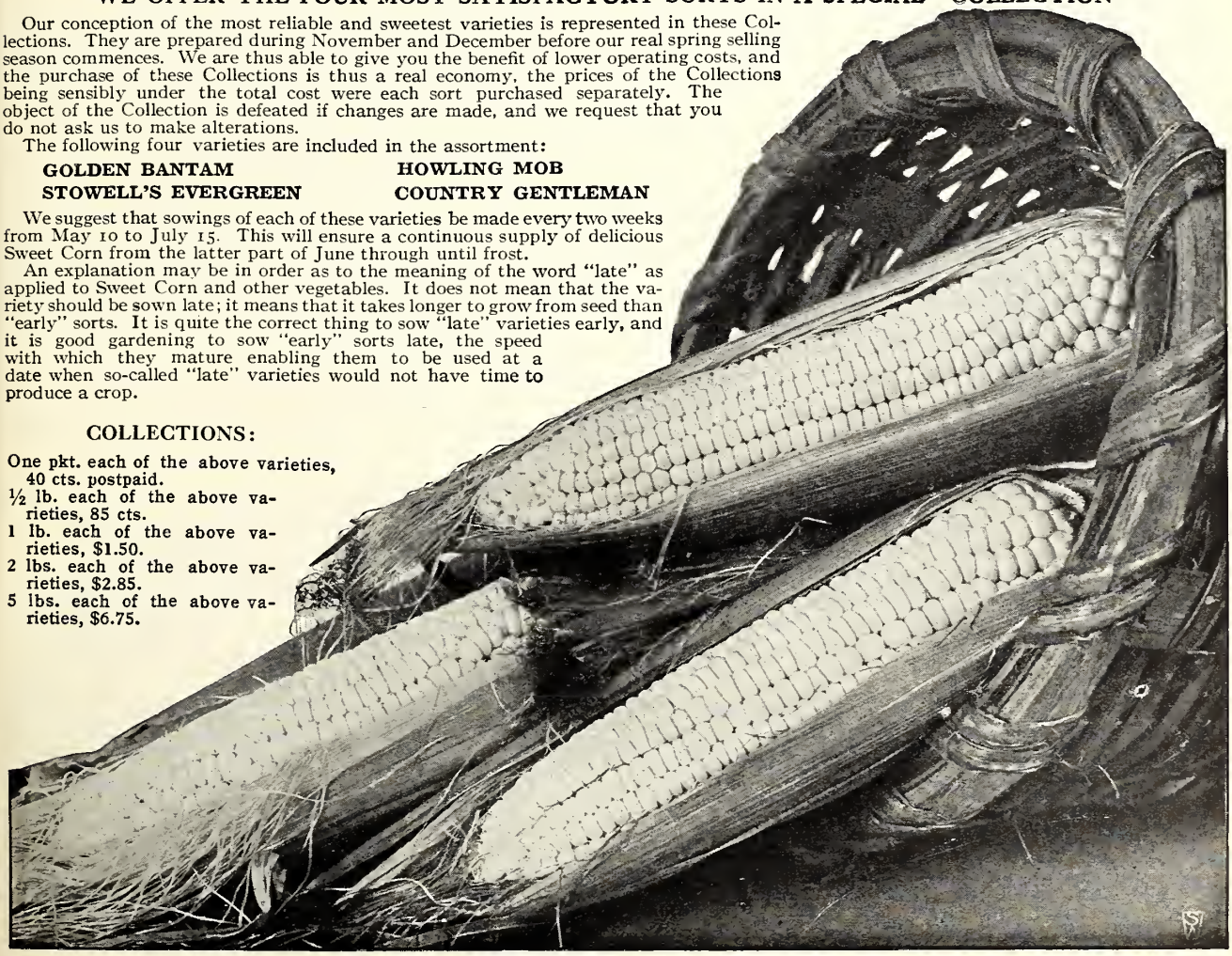
GOLDEN BANTAM — **HOWLING MOB**
STOWELL'S EVERGREEN — **COUNTRY GENTLEMAN**

We suggest that sowings of each of these varieties be made every two weeks from May 10 to July 15. This will ensure a continuous supply of delicious Sweet Corn from the latter part of June through until frost.

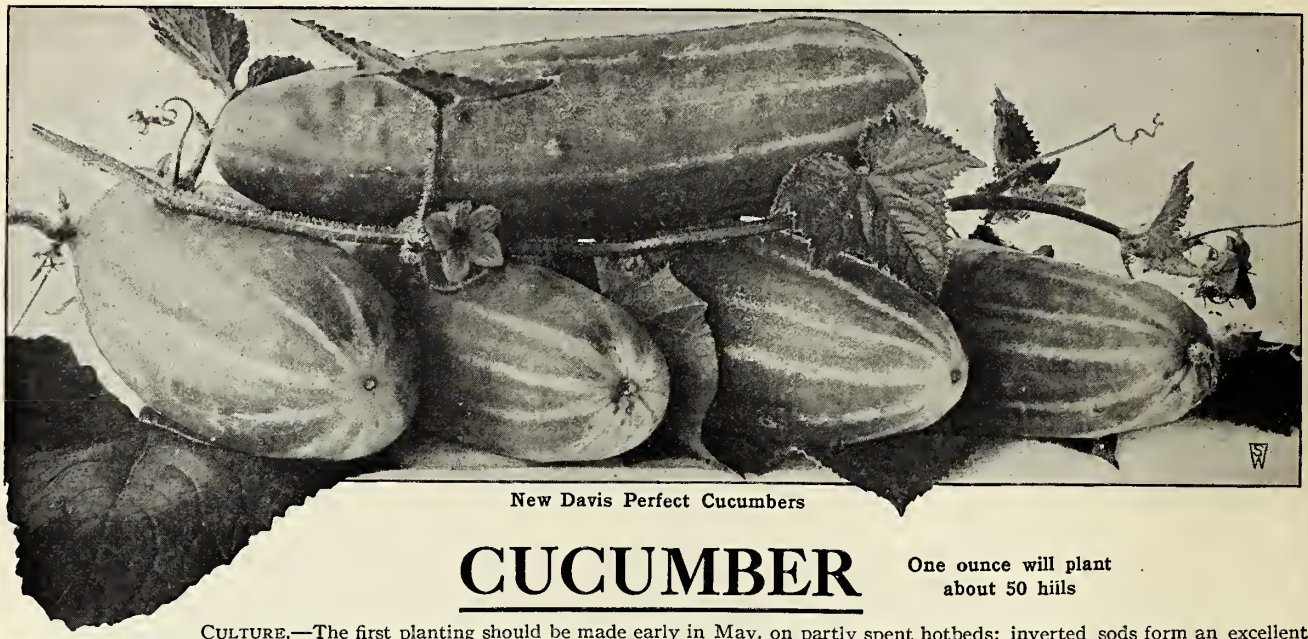
An explanation may be in order as to the meaning of the word "late" as applied to Sweet Corn and other vegetables. It does not mean that the variety should be sown late; it means that it takes longer to grow from seed than "early" sorts. It is quite the correct thing to sow "late" varieties early, and it is good gardening to sow "early" sorts late, the speed with which they mature enabling them to be used at a date when so-called "late" varieties would not have time to produce a crop.

COLLECTIONS:

One pkt. each of the above varieties, 40 cts. postpaid.
½ lb. each of the above varieties, 85 cts.
1 lb. each of the above varieties, $1.50.
2 lbs. each of the above varieties, $2.85.
5 lbs. each of the above varieties, $6.75.



Stowell's Evergreen Corn



New Davis Perfect Cucumbers

CUCUMBER

One ounce will plant about 50 hills

CULTURE.—The first planting should be made early in May, on partly spent hotbeds; inverted sods form an excellent medium for both planting in and carrying the young plants to their permanent location, or small paper pots can be used. Such plants are usually ready for transplanting to the open ground in from three to four weeks, and are seldom troubled with the striped bug. Transplanting, when practicable, should be done in the evening, into hills 4 feet apart each way. Thin out to about four plants to a hill when established. The seed may be planted in hills late in May, thus giving a succession. For pickles, plant during the last two weeks of June. Bug Death, or an infusion of hellebore powder in water, will destroy the striped bug.

New Davis Perfect. In color, a dark, glossy green; shape slim and symmetrical, with an average length of 10 to 12 inches. (See illustration.) Quality fine, as the seeds are very soft when fit for table use. Flesh tender and brittle, and of good flavor. **Pkt. 10 cts., oz. 30 cts., ¼lb. 75 cts., lb. $2.**

Improved Early White Spine. The fruits are nearly cylindrical in form, slightly pointed at the ends, perfectly smooth and of deep, rich coloring marked with distinct white lines at the blossom end. Will retain its color longer after pickling than most varieties, and is splendid as a table Cucumber. **Pkt. 10 cts., oz. 25 cts., ¼lb. 65 cts., lb. $1.75.**

Cool and Crisp. An excellent pickling or slicing Cucumber, of good size, tender and crisp; very early and exceedingly prolific. **Pkt. 10 cts., oz. 30 cts., ¼lb. 75 cts., lb. $2.**

New Klondyke. This is a hybrid sort of the White Spine type which holds its dark green color longer than most other sorts. Averages 6 to 7 inches in size; ends are quite square and it is about 2 inches thick. Its extreme earliness, combined with its prolific and hardy qualities, make it a very desirable variety for either market or private use. An excellent sort for slicing. When small, this variety is also an excellent pickling sort. **Pkt. 10 cts., oz. 30 cts., ¼lb. 75 cts., lb. $2.**

Extra-Long Green. A well-known standard variety about 1 foot in length, of most excellent quality, and when young makes the best of pickles. When ripe it is the best of any for sweet pickles. Vines vigorous and very productive. Our strain of this valuable sort is unsurpassed by any, being carefully selected from the best fruits. Pkt. 10 cts., oz. 25 cts., ¼lb. 65 cts., lb. $1.75.

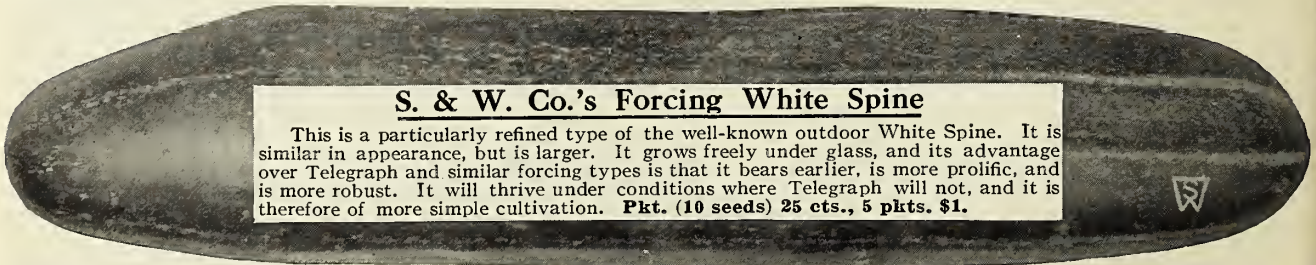
Japanese Climbing. Well adapted for pickling, as well as for slicing for salads. The great advantage of this variety lies in the fact that it can be trained on a pole or fence. The Cucumbers are a foot or more in length, with a smooth, dark green skin which turns brown and is netted when ripe. Pkt. 10 cts., oz. 35 cts., ¼lb. 90 cts., lb. $2.50.

Fordhook Pickling. One of the best and most prolific varieties for producing pickles of medium size for both home or market use. Vines are very vigorous, yielding a large number of fruits; remaining in strong, healthy, growing condition longer than any other known variety. The skin is very tender and remains so when pickled. **Pkt. 10 cts., oz. 30 cts., ¼lb. 75 cts., lb. $2.**

Early Green Prolific. This sort can be used for slicing, but is best for pickling on account of its uniform small size. Pkt. 10 cts., oz. 30 cts., ¼lb. 75 cts., lb. $2.

CUCUMBERS FOR GROWING UNDER GLASS

S. & W. Co.'s Improved Telegraph. By special arrangement, we have secured a selected strain of this variety, and have no hesitancy in saying we consider it equal to, if not better than, all other varieties. A very dark green type which we have found from numerous tests to be the finest strain obtainable. **Pkt. (10 seeds) 25 cts., 5 pkts. $1.**



S. & W. Co.'s Forcing White Spine

This is a particularly refined type of the well-known outdoor White Spine. It is similar in appearance, but is larger. It grows freely under glass, and its advantage over Telegraph and similar forcing types is that it bears earlier, is more prolific, and is more robust. It will thrive under conditions where Telegraph will not, and it is therefore of more simple cultivation. **Pkt. (10 seeds) 25 cts., 5 pkts. $1.**

S. & W. Co.'s Forcing. A new type for growing under glass



New York Improved Eggplant, much reduced. Fruits average 7 inches deep and 5 inches in diameter.

EGGPLANT

One ounce will produce about 1,000 plants

CULTURE.—One of the most delicious vegetables grown, yet it is not cultivated to the extent it would be if its superior table qualities were better known. Sow during March, in a warm hotbed in light rich soil, or fill a shallow box with a similar mixture and after sowing place in the full light of a warm window. Transplant or thin so that the young plants stand 3 inches each way or, better still, put out individually into small pots. Always keep the young plants warm and do not plant out until settled fine weather has arrived. They need to stand 2 feet apart each way when put outside where they are intended to fruit.

New York Improved Spineless. This variety is more widely grown than any other and is a favorite both for the market-garden and for family use. The fruits are large, round-oval, of a rich deep purple-black color and splendid quality. The stems and calyx are entirely free from spines. In spite of their large size, the fruits are produced continuously and freely; each strong, spreading, bushy plant may be expected to yield from six to ten splendid "eggs." We offer a markedly superior strain of this fine variety. **Pkt. 15 cts., ½oz. 40 cts., oz. 75 cts., ¼lb. $2.25.**

Long Purple. In this type the fruits are 6 to 8 inches in length and 2 to 3 inches in diameter. In color they are a handsome dark purple. The variety is early and prolific. **Pkt. 15 cts., ½oz. 40 cts., oz. 75c., ¼lb. $2.25.**

Black Beauty. Is very much on the style of New York, but it is darker in color and has a higher polish. It is also broader and thicker. Pkt. 20 cts., ½oz. 60 cts., oz. $1, ¼lb. $2.75.



Long Purple Eggplant. A very prolific and early sort

COLLARDS, GEORGIA

One ounce will produce about 3,000 plants

A cabbage-like plant with a large, loose head. In the South it is widely used as a cooked vegetable, being prepared in a manner similar to spinach. The seed may be started under glass during March and transplanted, being treated like early cabbage. For a late crop, sowings in the open ground during July or August are usual. Plants should be at least 3 feet apart each way. Collards are used as a substitute for cabbage in those sections where cabbage cannot be raised. **Pkt. 10 cts., oz. 30 cts., ¼lb. 75 cts., lb. $2.**

CORN SALAD

One ounce will sow 150 feet of drill

CULTURE.—Seed may be sown thinly in drills 18 inches apart in early spring, and sowings may be made later for succession as required, although in hot weather it is difficult to obtain satisfactory results, hence late summer and early fall seedings are preferred. The young plants from the latest sowings are covered with a light mulch and wintered exactly as spinach is often managed. Rich soil is necessary. Among artificial fertilizers to be recommended is S. & W. Co.'s General Garden Fertilizer. This may be dug into the ground before seeding and later hoed frequently between the rows during growth, thus mixing it thoroughly with the soil.



Corn Salad. Widely used in winter in place of Lettuce

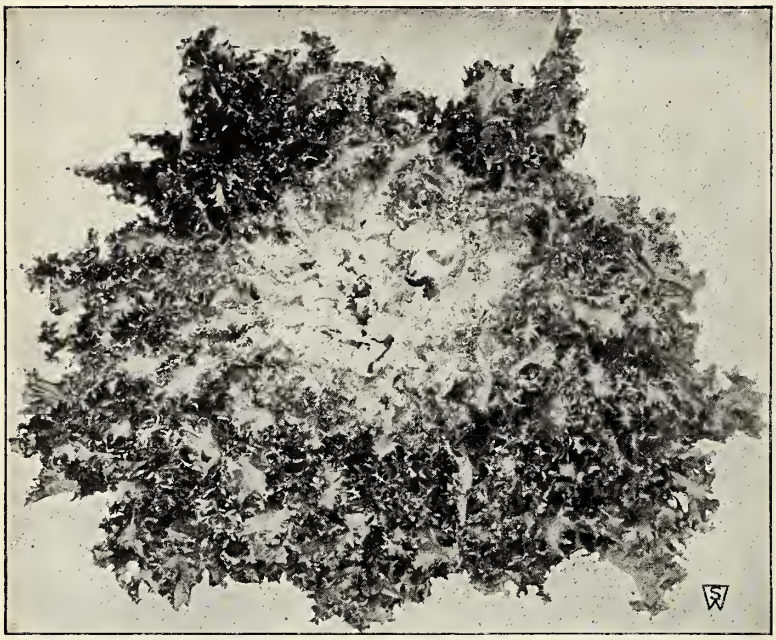
Large-leaved. Tested seed of high vitality. Pkt. 10 cts., oz. 30 cts., ¼lb. 75 cts., lb. $2.

DANDELION

One ounce will sow about 100 feet of drill

CULTURE.—Sow early in the year in drills 1 foot apart, covering the seed no more than ¼inch. Thin the plants to stand 4 inches apart. Dandelion may be blanched like endive, for salad purposes, or it may be sown later in the season, plants covered lightly with salt hay, and the following spring they will be fit for use as early greens.

French Garden. Pkt. 15 cts., ½oz. 35 cts., oz. 60 cts., ¼lb. $1.75.



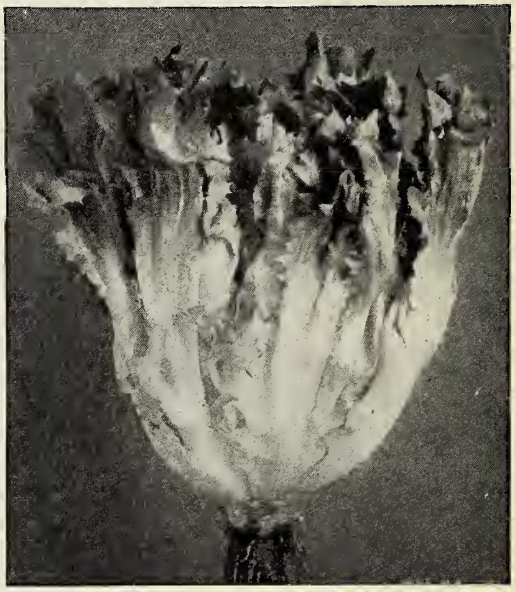
Green Curled Rose-Ribbed Endive. The most attractive of all autumn and winter salads

ENDIVE

One ounce will sow 200 feet of drill

CULTURE.—One of the most attractive of all autumn and winter salads. It is commonly known in restaurants as Chicorée, and is especially refreshing when served as lettuce with plain French dressing. Sow seed from middle of June till last of August. When the plants are fully grown, tie all the outside leaves together over the heart, to blanch the inner leaves, which will take about a week. Do not tie up when the leaves are wet, as they will then decay.

Green Curled Rose-Ribbed (Self-blanching). Quicker to mature and more upright in growth than the ordinary type. Grown 6 inches apart, in good, rich soil, the plants quickly crowd one another to such an extent that the dense centers of the plants blanch themselves. The flavor is refined to a degree. **Pkt. 15 cts., oz. 55 cts., ¼lb. $1.50, lb. $4.**



Escarolle (Broad-leaved Endive). Used widely as a salad and also like spinach

ENDIVE, continued

Green Curled. The hardiest and most vigorous variety. The leaves are bright green, finely cut and crinkled, giving the plant a handsome appearance. Blanches easily a creamy white. Pkt. 10 cts., oz. 30 cts., ¼lb. 75 cts., lb. $2.

White Curled. A variety which blanches readily and is very tender when young. It is similar to Green Curled, but the leaves are naturally of a light golden tint, and it is not essential that they be tied up to blanch them for table use. The flavor is very good. Pkt. 10 cts., oz. 35 cts., ¼lb. $1, lb. $3.

Broad-leaved Batavian (**Escarolle**). The leaves are broad and thick, more or less twisted and waved, with round ends and are of a bright deep green with a nearly white midrib. They are much larger in size, thicker and more fleshy than those of the preceding sorts. The inner leaves form a fair head which blanches a creamy white. In its natural state Escarolle forms an excellent salad with an appetizing piquiancy. It may be gathered fresh from the ground well into winter, thus furnishing salad at a season of the year when it is most welcome. Escarolle is also frequently served as spinach, when its flavor and health-giving properties render it of high value. **Pkt. 10 cts., oz. 30 cts., ¼lb. 75 cts., lb. $2.**



Earliest Selected Kohlrabi. Useful alike for forcing and for general culture

KALE

One ounce will produce about 300 plants

CULTURE.—Sow in May in shallow drills; when large enough, transplant singly into rows, allowing 24 inches between the plants.

Dwarf Green Curled Scotch. This withstands frost better than cabbage. In fact, it is not at its best until cold weather has set in. The leaves are curled like fine parsley. As boiled "greens," Scotch Kale is tender and of remarkably fine flavor. **Pkt. 10c., oz. 30c., ¼lb. 75c., lb. $2.**

Siberian Kale or **Sprouts.** Is not so densely curled as the Scotch, but is also hardy and yields a heavy bulk of produce. Widely known as "German greens." Seeds should be sown in September and treated like spinach; it is fit to cut early in spring. Pkt. 10 cts., oz. 30 cts., ¼lb. 75 cts., lb. $2.

Dwarf Brown Kale. A beautiful curled variety, with spreading foliage; very hardy and of fine flavor. Pkt. 10 cts., oz. 30 cts., ¼lb. 75 cts., lb. $2.

KOHLRABI

One ounce will sow about 200 feet of drill

CULTURE.—This is a very delicious vegetable, and is increasing in popularity rapidly; combines the good qualities of the turnip and cabbage, but excels both in nutritive and productive qualities. Cooked the same as turnips, they are very tender and palatable. Sow in spring in rows 18 inches apart, and thin away the plants to 6 inches.

Earliest Selected (for frames). A variety with few and small leaves; can be planted very closely; very useful for general culture and indispensable for forcing. **Pkt. 20 cts., oz. 65 cts., ¼lb. $1.75, lb. $5.**

Early White Vienna. The earliest and best for either market or family use. Pkt. 10c., oz. 35 cts., ¼lb. $1, lb. $3.

Early Purple Vienna. Similar to the preceding, except in color, which is of a bluish purple. Pkt. 10 cts., oz. 35 cts., ¼lb. 1, lb. $3.

LEEK

One ounce will sow about 100 feet of drill

CULTURE.—Sow the seed very early in a seedbed in a sheltered place, if possible. When plants are about 6 inches long transplant them to trenches 6 inches deep, with very rich soil at the bottom. Fill up the trenches as the plants grow, and later draw soil up to them. As a result you will have fine, large Leeks blanched half a foot long, which may be kept all winter if dug up with the roots on and stored in moist sand in the cellar.

S. & W. Co.'s Exhibition. This is by far one of the best, long, blanched varieties we have ever offered. Seed furnished several prominent exhibitors in vegetable classes this past fall was pronounced quite the best they have grown. **Pkt. 25 cts., 5 pkts. $1.**

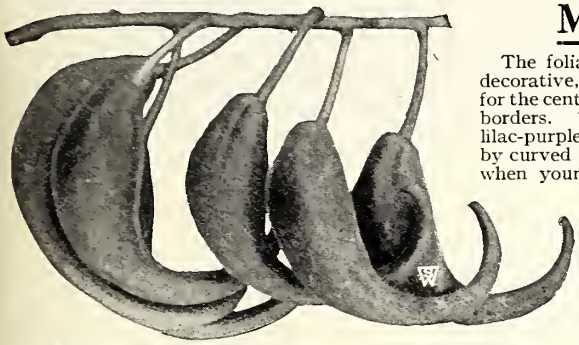
Large American Flag. A large-growing type, desirable in every way. On account of its dependability and ease of culture, is the most widely used variety for both family and market use. **Pkt. 10 cts., oz. 35 cts., ¼lb. $1, lb. $3.**

Musselburgh. (Winter.) A very hardy variety of extra-large size. The leaves are fan-shaped, of a dark green color. The edible stem is 6 to 8 inches long and 3 inches in diameter. Pkt. 10 cts., oz. 35 cts., ¼lb. 90 cts., lb. $2.50.



American Flag Leek. The standard variety for general use

MARTYNIA



Martynia. The immature pods are used for pickles

The foliage of this plant actually is very decorative, and it may be used to advantage for the center of flower-beds or in mixed flower borders. The thick, succulent stems bear lilac-purple flowers, and these are followed by curved seed-pods. The pods are gathered when young and are pickled sweet, in the same manner as cucumbers. Sow the seed when frost is over, and thin the plants or transplant them to stand 3 feet or more apart; or, if preferred, sowings may be made under glass early in the season and the plants afterward planted in the open ground. **Pkt. 15 cts., oz. 55 cts., ¼lb. $1.50, lb. $4.**

MUSTARD

One ounce will sow 75 feet of drill

CULTURE.—Sow frequently through the spring, in drills from 8 to 12 inches apart.

Fordhook Fancy. A variety possessing densely crested and cut leaves, and having, in consequence, a handsome feathered appearance. Cooked and served as spinach, the flavor is inviting, while the plant possesses healthful tonic properties. **Pkt. 10 cts., oz. 30 cts., ¼lb. 75 cts., lb. $2.**

Giant Southern Curled. The plant grows 3 feet tall, and the broad, succulent leaves are cut and frilled. Pkt. 10 cts., oz. 20 cts., ¼lb. 55 cts., lb. $1.50.

THE USE OF MUSTARD. The large leaves of the above two varieties are boiled, forming a most palatable, piquant, and healthful type of "greens." White London is sown quite thickly in fine soil and not covered but pressed lightly down. In little more than a week the overcrowded seedlings are about 2 inches long; cut them with scissors close to the soil, wash and use for sandwich material. Curled Cress (see page 23) may be grown and used in the same manner. Both are suitable for growing in the house throughout the year in boxes of soil, sand, or even on moistened cloth.

WHITE LONDON MUSTARD. Pkt. 10c., oz. 20c., ¼lb. 55c., lb. $1.50.



Fordhook Fancy Mustard. A dwarf type served in the same manner as spinach, is excellent and healthful.

Four Aids to Successful Gardening

WHICH SHOULD BE INCLUDED WITH EVERY ORDER

GARDEN FERTILIZER

Use at the rate of 10 pounds for a space 15 by 15 feet, or 500 pounds per acre. May also be dusted between the rows during growth.

5 lbs.....$0 50 | 25 lbs.....$1 75 | 100 lbs.....$5 50
10 lbs.....0 90 | 50 lbs.....3 25 | Ton.....75 00

We pay freight to your station in 100-lb. lots or over when cash accompanies your order. In lesser quantities the purchaser pays delivery charges.

SEMESAN

Place a little Semesan with seeds in a jar and shake vigorously; bacteria and fungus spores adhering to the seeds will be killed.

2 ozs.....$0 50 | 8 ozs.....$1 60 | 1b.....$2 75

MAG-O-TITE

Protects your crops against the ravages of the root-maggot, earthworm, and other pests. Mag-o-Tite is a powder which is mixed with the soil at seeding-and planting-time, and later sprinkled alongside your plants when growing.

2-lb. pkg.....$0 40 | 4-lb. pkg.....$0 70 | 8-lb. pkg.....$1 25

FARMOGERM

Supplies the nitrogen-fixing bacteria necessary for the successful growth of Beans, Peas, and Sweet Peas. **Garden size, special composite culture, 25 cts., postpaid 35 cts.**

LETTUCE

One ounce will sow 150 feet of drill

Because the number of good sorts of Lettuce is so great as to prove bewildering to the majority of home-gardeners, we have selected for them the following, which, in our many years of experience, have never disappointed where the cultural directions were followed.

CULTURE.—About the middle of March sow either Big Boston, May King or Wayahead in the hotbed. When seedlings are about 2 inches tall, transplant them 4 inches apart each way in a coldframe. By May 1, after properly hardening them, set out in the garden, 1 foot apart in the row, with a 2-foot path between the rows. These plants should give you firmly folded, well-developed heads by Decoration Day. As soon as the ground can be worked outdoors, plant seeds of any of the early sorts in rows, ¼ inch deep. As soon as seedlings are 3 to 4 inches tall, thin them to stand 4 inches apart in the row. Later on remove every other one and do this again until the plants finally stand 16 inches apart in the row. Then hoe *between* the plants as well, in order to secure good heads. After the middle of May, do not sow seeds of early kinds, but select sorts like All Seasons and Iceberg instead. Make repeated sowings of short rows to have a crisp product available constantly. In August sow Thanksgiving Day Lettuce.



Grand Rapids Lettuce

EARLY LOOSE-LEAVED LETTUCES

Early Curled Simpson. A splendid curly-leaved sort. Seed sown in the coldframe about the middle of March and transplanted about the middle of April will supply the table from May until the middle of June. **Pkt. 10 cts., oz. 30 cts., ¼lb. 80 cts., lb. $2.25.**

Black-seeded Simpson (Loose Head). A popular curly-leaved sort, similar to Curled Simpson, except that it is larger in size. Pkt. 10 cts., oz. 30 cts., ¼lb. 75 cts., lb. $2.

Grand Rapids. There is no better forcing variety among the curly-leaved sorts than the Grand Rapids, and it is quite as good for outdoor culture as many others. Large, beautiful leaves; crisp and tender. **Pkt. 10 cts., oz. 30 cts., ¼lb. 75 cts., lb. $2.**

TEN FINE LETTUCES

A suggestion in one of our prominent garden periodicals has given Ten Fine Lettuces for the amateur gardener to grow, whose garden space is small, and where crisp Lettuce is desired from April to December.

Golden Queen. A small variety of compact habit, forming yellowish green heads. Seed may be sown about the middle of April outdoors, giving Lettuce in about six weeks, just a few days before May King and about a day or so after Wayahead. **Pkt. 10 cts., oz. 30 cts., ¼lb. 75 cts., lb. $2.**

Wayahead. Large and fine. Very similar to May King described below. If seed is sown about the same time as Golden Queen, it will likely mature a few days sooner, but usually makes a looser head. **Pkt. 10 cts., oz. 30 cts., ¼lb. 75 cts., lb. $2.**

May King. Unquestionably one of the best all-round, early, outdoor Lettuces. Does remarkably well in cold or wet weather, forming solid heads of bright green, the edges of the center leaves tinged reddish brown, the heart is clear yellow and of ideal flavor. If sown the same time as Wayahead, May King will be ready about four to five days later. This variety is sown in August for fall use. **Pkt. 10c., oz. 35c., ¼lb. $1, lb. $3.**



May King Lettuce

California Cream Butter. The largest and latest of the early varieties of this type named in this list. If sown the same time outdoors as the three preceding, will mature about ten days to two weeks later. **Pkt. 15 cts., oz. 50 cts., ¼lb. $1.40, lb. $4.**

Big Boston. A splendid head Lettuce, perhaps the most generally and favorably known of the ten mentioned here. Forced in frames to great extent in the spring and is also planted in August for late crop. Does not do well for midsummer use, but as a fall or early spring Lettuce is one of the best. Large heads, center crisp and of fine flavor. **Pkt. 10 cts., oz. 35 cts., ¼lb. $1, lb. $3.**

Black Seed Big Boston. By far the most heat-resisting sort of this type. The plants are of a uniformly darker shade of green, grow more compactly, and stand several days longer than other strains of Big Boston, before running to seed. **Pkt. 10 cts., oz. 30 cts., ¼lb. 75 cts., lb. $2.**

All-Seasons. May be described as a black-seeded Deacon. A good heat-resister. If sown early in May will produce fine, buttery Lettuce from the latter part of June to the latter part of July. **Pkt. 10 cts., oz. 35 cts., ¼lb. $1, lb. $3.**

Iceberg. (**California Simpson.**) A splendid, crisp-head sort: Few Lettuces resist the heat better. Has strong center ribs, which bend toward the heart of the plant, keeping it thoroughly blanched. Repeated sowing from early May, of this sort and New York or Wonderful, at intervals of three weeks, should supply the table well up to September 1. **Pkt. 10 cts., oz. 30 cts., ¼lb. 75 cts., lb. $2.**

Thanksgiving Day. The best Lettuce for sowing in summer to produce a crop in late autumn. Outer leaves are brown and fringed, but the firm, solid head is bright golden green and of splendid flavor. **Pkt. 15 cts., oz. 50 cts., ¼lb. $1.40, lb. $4.**

New York or Wonderful. This variety grows considerably larger than Iceberg and matures about ten days later. The outer foliage is a distinct dark green as compared with the yellowish green of Iceberg. **Pkt. 15 cts., oz. 50 cts., ¼lb. $1.40, lb. $4.**



Big Boston. Everybody's Favorite for outdoor use and forcing

OTHER GOOD HEAD LETTUCES

Mammoth Black-Seeded Butter. A very large type. The heart is of fine flavor and melting. Mammoth Black-seeded Butter is advised for late spring and summer planting, as it is a good hot-weather variety, being one of the last to "bolt" to seed. **Pkt. 10c., oz. 35c., ¼lb. $1, lb. $3.**

Hanson Improved. The round head is large and well-formed, and is so solid it blanches almost white. The outer leaves are curled and shining, giving the Lettuce a very handsome appearance. This variety is recommended because of its absolute reliability. Pkt. 10 cts., oz. 35 cts., ¼lb. $1, lb. $3.

Mignonette. A densely heading curled Lettuce of medium size and one that is very solid, compact, and hard. It is medium brown in color, with a dark greenish tinge. Mignonette is very popular in many sections on account of its high quality and its wonderful resistance to heat, it being one of the last varieties to run to seed. Pkt. 10 cts., oz. 35 cts., ¼lb. $1, lb. $3.

Black-seeded Tennisball. Forms a close solid hard head of a buttery texture: not over large in size and of a medium green color. The leaves are crumpled. Tennisball enjoys wide popularity, chiefly because it is a sure header during spring, summer and fall. Pkt. 10 cts., oz. 30 cts., ¼lb. 75 cts., lb. $2.

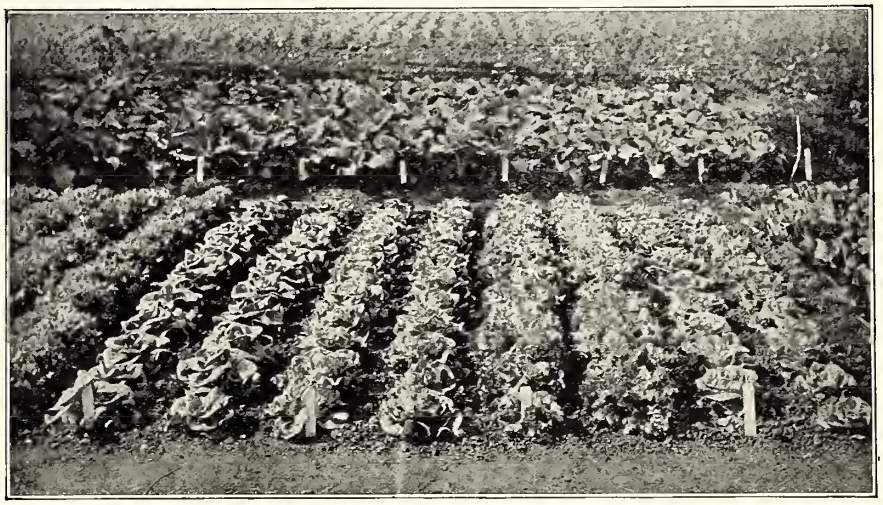
Salamander Perfected. An excellent summer variety. Grows to large size, with tightly folded leaves covering the center, which blanches a light golden. Pkt. 10 cts., oz. 35 cts., ¼lb. $1, lb. $3.

Unrivaled Summer. Forms uniformly large heads similar to Big Boston but lighter in color. Ready about a week earlier than Big Boston when sown at same time. May be sown throughout the season. Pkt. 10 cts., oz. 35 cts., ¼lb. $1, lb. $3.

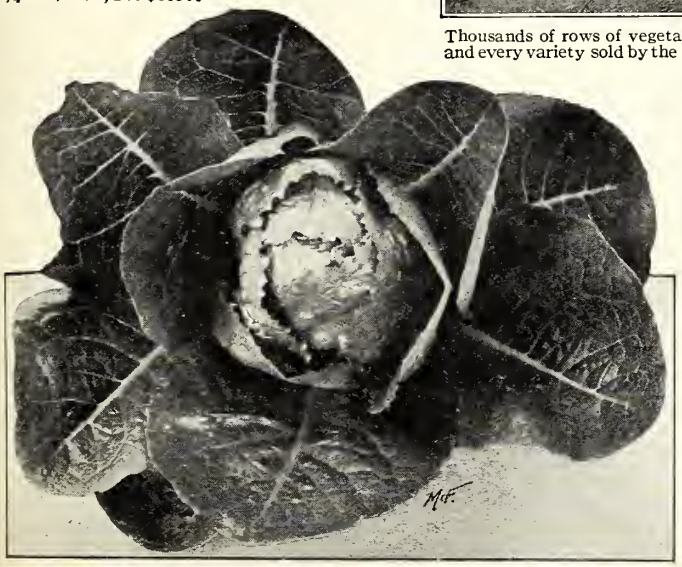
A MINIATURE LETTUCE

S. & W. Co.'s Tom Thumb.

This miniature sort is just what the gardener wants for greenhouse or frame culture. The small, firm, cabbage-shaped heads are of excellent buttery quality, while the leaves are dark green and very crumpled. The owner of the small garden likes the tiny plants, which occupy but little space. Outdoors it is suitable for spring and fall use. The plant is practically all head. **Pkt. 15 cts., oz. 45 cts., ¼lb. $1.25, lb. $3.50.**



Thousands of rows of vegetables and flowers are grown to maturity on the S. & W. Co.'s Trial-Grounds, and every variety sold by the Company is represented. Our view shows a portion of the Lettuce Trials.



Paris White Lettuce, or Romaine. Crisp, tender, and sweet

COS or ROMAINE LETTUCE

This is of upright growth, quite distinct, and is considered by many growers to be the most refined type of Lettuce. When about a week short of maturity, it is usual to draw the outer leaves together and tie them, blanching the inner heart and greatly enhancing its noted crispness and fine flavor. Experts for some years have been developing plants which naturally tend toward a close, compact habit, and the necessity for tying is not so great with the following three varieties as with the older forms. In spite of this, it is always worth the trouble to tie up at least some of one's Cos Lettuces.

S. & W. Co.'s Giant White. Although this fine Cos Lettuce attains a large size, the immense heart is crisp, tender and excellent; habit quite self-folding. A splendid early sort. **Pkt. 25c., ½oz. 60c., oz. $1.**

Paris White Cos, or Romaine. A splendid sort for summer use, leaves quite erect. **Pkt. 10 cts., oz. 35 cts., ¼lb. $1, lb. $3.**

Trianon Self-closing Cos. A large, strictly self-folding type with long, narrow, oval leaves. The oval head is tender and crisp. Trianon is several days earlier than the above varieties, making it of value to the commercial man. Pkt. 10 cts., oz. 35 cts., ¼lb. $1, lb. $3.

MUSKMELON

One ounce will sow about 80 hills

CULTURE.—Sow the seed in April under hand glasses, and in the open air in May in hills 6 feet apart each way. Plant in each hill from 8 to 10 seeds, covering half an inch deep. When the plants have produced their rough leaves, thin out to three plants. The hills should be prepared by trenching in rotten manure and sand. As soon as the plants make their appearance above ground, dust them with soot, charcoal dust or Bug Death, to prevent the ravages of the bug.

GREEN-FLESHED KINDS

Rocky Ford. The fruits weigh from 1¼ to 1½ pounds each. They are quite thick meated, with very thin rinds; skin light green, regularly ribbed and heavily netted, turning to a golden yellow as the melon ripens. Flesh light green in color, firm but melting, and of uniformly fine flavor. **Pkt. 10 cts., oz. 30 cts., ¼lb. 75 cts., lb. $2.**

"10/25" Salmon Tint. The Rocky Ford Muskmelon has been improved under the direction of Professor Blinn of the Colorado Experiment Station, and "10/25" is the best yet. The fruit is heavily and evenly netted, very uniform in size, rust resisting, and early; the flesh is a rich gold in the center, shading out to emerald-green near the rind. The flavor is highly aromatic and pleasing to a degree. **Pkt. 10 cts., oz. 35 cts., ¼lb. $1, lb. $3.**

Honeydew. This variety, with its clear light yellow skin, is becoming quite familiar in the best markets. No other melon is quite so sweet as this, and it is not surprising that it should become so popular. The flesh is green, very thick, and, unlike some Melons, it ripens uniformly to the rind. Pkt. 10c., oz. 35c., ¼lb. $1, lb. $3.

Extra-Early Hackensack. Large, round and of fine quality. A standard variety. Pkt. 10 cts., oz. 25 cts., ¼lb. 65 cts., lb. $1.75.

GOLDEN or ORANGE-FLESHED SORTS

Admiral Togo. This is an orange-fleshed Rocky Ford. The fruit is small, with very thick flesh of splendid quality. It possesses the fine netting, shape, size, and shipping quality of Rocky Ford. Admiral Togo is an ideal table and basket melon. **Pkt. 10 cts., oz. 35 cts., ¼lb. $1, lb. $3.**

Banana. Narrow, curved, and as much as 30 inches in length, this old-time variety is well named. The flesh is a deep salmon, sweet, and of good quality. Pkt. 10 cts., oz. 30 cts., ¼lb. 75 cts., lb. $2.

Selected Emerald Gem. The skin is a rich deep green, and smooth; flesh salmon color and of delicious flavor. A very early and prolific variety and one that is very extensively grown for family use. Pkt. 10 cts., oz. 30 cts., ¼lb. 75 cts., lb. $2.



S. & W. Co.'s Selected Stock, Rocky Ford. The most popular green-fleshed Muskmelon

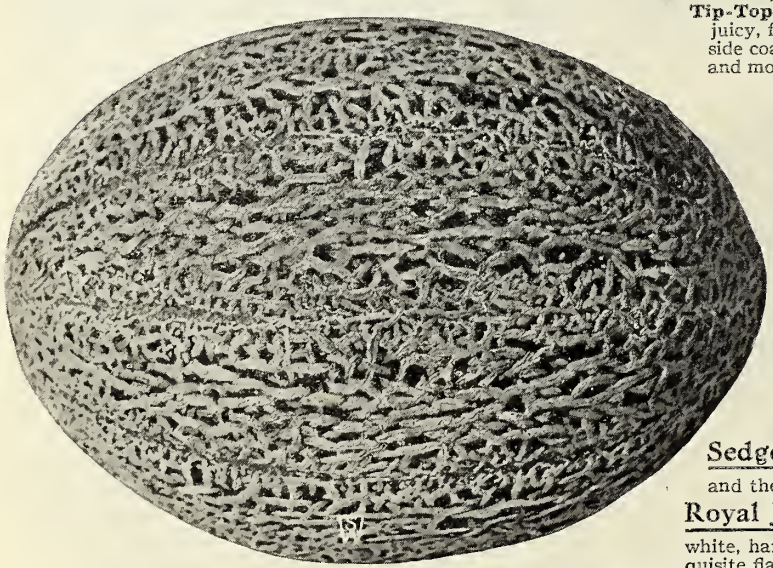
Hearts of Gold, or **Improved Hoodoo.** A new orange-fleshed variety, ideal as a shipping melon and of the very finest quality. Fruits uniformly of medium size. Rind thin yet very firm. Flesh very thick, firm, of fine texture and delicious flavor. Pkt. 10 cts., oz. 35 cts., ¼lb. 90 cts., lb. $2.50.

Osage, or **Miller's Cream.** This is a large-fruited, dark-skinned Melon, the appearance of which is much enhanced by the shallow grey netting which covers it so evenly. The very thick red flesh is of pleasing flavor. A very popular main-crop variety. Pkt. 10 cts., oz. 35 cts., ¼lb. $1, lb. $3.

Tip-Top. The most productive melon known; having a sweet, juicy, fine flavor; solid flesh (but not hard) and edible to the outside coating. The fruit is of large size, nearly round, evenly ribbed and moderately netted. Pkt. 10 cts., oz. 30 cts., ¼lb. 75 cts., lb. $2.

Paul Rose. This new red-fleshed Melon is sweet and highly flavored, and in it are combined all the good qualities of the Netted Gem and Osage, the varieties from which it originated. Pkt. 10c., oz. 30c., ¼lb. 75c., lb. $2.

Supreme. Its color is a deep emerald-green outside, with more or less netting, while the flesh is a fine deep salmon of unusual thickness. It has a rich and most delicious flavor, tender and melting; it is also highly aromatic. Pkt. 25 cts., 5 for $1.



Admiral Togo. An ideal orange-fleshed Melon

Cassaba Muskmelon

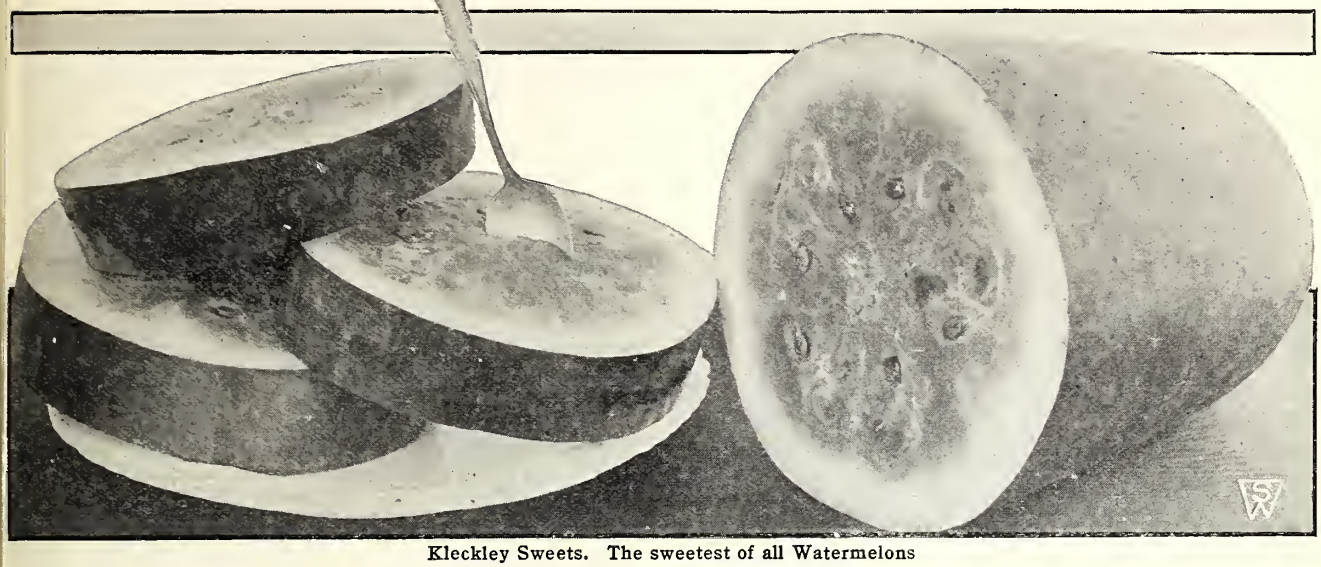
To the lover of Muskmelons, it is a matter of disappointment that the varieties ordinarily grown will not keep for any length of time after ripening. Cassabas, however, *will keep*, and they are true winter melons. Cultivate similar to muskmelons. **Pkt. 15 cts., oz. 45 cts., ¼lb. $1.25.**

FORCING MELONS

Sedgewick Gem. (New.) A very large melon of English origin. The yellow skin is heavily netted, and the thick orange flesh is of excellent flavor. **Pkt. 50 cts.**

Royal Jubilee. A splendid, oval, green-fleshed melon, raised at the Royal Gardens, Windsor. Skin almost white, handsomely netted. The flesh is tender and of the most exquisite flavor. **Pkt. 50 cts.**

King George. Thick red flesh. Pkt. 50 cts.



Kleckley Sweets. The sweetest of all Watermelons

WATERMELON

One ounce will plant about 50 hills

CULTURE.—Treat the same as muskmelon, except that they should be planted 8 to 10 feet apart, according to variety.

Cole's Early. A most delicious and productive variety for the family garden, succeeding in northern states, where melons were never matured before. The flesh is of a beautiful bright red color, crisp and extremely delicate in texture—that granulated, cool, sparkling appearance that is so captivating to the eye; in flavor it is lusciously sweet and refreshing, no pithiness or stringiness. **Pkt. 10 cts., oz. 30 cts., ¼lb. 75 cts., lb. $2.**

Kleckley Sweets. **The sweetest of all the Watermelons.** Fine-flavored and grained, tender meat. Fruits are large size; rind very thin and green, very brittle; flesh scarlet and firm; and a variety everyone should grow. **Pkt. 10 cts., oz. 30 cts., ¼lb. 75 cts., lb. $2.**

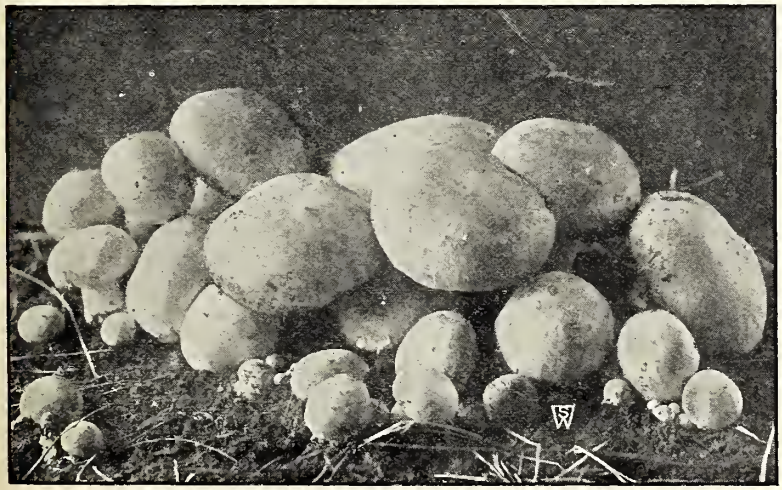
Early Fordhook. The quickest-maturing, large-fruited Watermelon grown, and therefore suitable for the more northern parts of the country. The fruits are short and "stubby" in form, though large. The dark green skin is occasionally flecked with faint stripes of a lighter color, and the bright scarlet flesh is crisp and of such splendid quality as to warrant our recommending it to our customers. It is a variety which ships well. Pkt. 10c., oz. 30c., ¼lb. 75c., lb. $2.

Tom Watson. A large, long melon with a tough rind. Vines vigorous and productive; flesh rich red, sweet, and tender. Pkt. 10 cts., oz. 20 cts., ¼lb. 55 cts., lb. $1.50.

Citron. Round and handsome; used for preserves. Pkt. 10 cts., oz. 25 cts., ¼lb. 65 cts., lb. $1.75.

MUSHROOMS

CULTURE.—You need (1) a shed or cellar which can be kept damp and at a temperature around 60 degrees; (2) fresh horse-manure from healthy animals, free of shavings, and with little straw; (3) some good garden soil; (4) some hay or straw; (5) high-grade Pure Culture Spawn or Bottle Spawn; (6) a hotbed thermometer. Turn the manure for several days, keeping it slightly moist; make firm beds with it 1 foot thick, and let it steam. Try the temperature of the manure: it will go over 100° and then fall; at 85° plant spawn just under the surface and then cover the beds with hay. A mould will be noticed on the manure after a week; remove the hay and spread one inch of soil in its place. Keep the bed slightly moist, using warm water, and occasionally sprinkle the floors and walls. You should commence gathering mushrooms in six weeks.



Bed of S. & W. Co.'s Pure Culture Mushroom Spawn

Pieces of Mushroom Spawn may be plugged into the lawn. If the land is rich, a good crop of Mushrooms may be expected in the autumn.

Brick Spawn, American Pure Culture

Ten pounds will spawn 10 square feet

Spores have been selected from specimen Mushrooms and transferred to bricks of compressed manure and loam. Break the brick into pieces the size of a walnut and plant 1 foot apart each way.

Per Brick (about 1½ lbs.) **35c.** **Per 10 Bricks, $3.25.**
Per 25 Bricks, $7. **Per 100 Bricks, $25.**

Bottle Spawn, A New Process

One quart will spawn 35 square feet

In this new method the spores are propagated in sterile glass bottles, the Spawn removed, dried, and packed in cartons. Excluded from the Spawn are the spores of other fungous growths, many of which are highly poisonous; no insect eggs, flies, or weed seeds. Pieces the size of a nut are planted in the usual way. In white, light brown, and cream colors. **Qt. $1.25, 6 qts. $6.50, 12 qts. $12.**

ONIONS

One ounce for 100 feet of drill; 5 to 6 pounds per acre

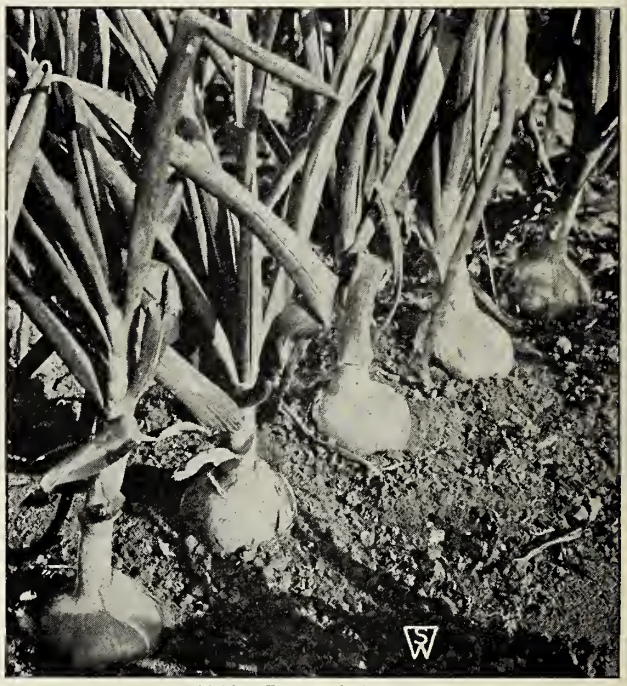
CULTURE.—Sow in rich, sandy soil, in drills 1 foot apart, as early as possible in the spring, cover with fine soil and firm well, either with roller or back of spade. When plants are strong enough, thin out to 3 or 4 inches. The finest Onions are produced by sowing the seed in a hotbed early in February and transplanting seedlings to the open ground 6 inches apart.

MILD, WHITE VARIETIES

S. & W. Co.'s Southport White Globe. Yields abundantly, producing handsome and uniformly globe-shaped bulbs. The flesh is firm, fine-grained and of mild flavor. To produce the beautifully white Onions, so much sought in every market, one must, first of all, have good seed. Second, grow them well on rich land. Third, exercise great care in harvesting and curing the crop. In Southport, they "cord" up the Onions in long rows, the bulbs on the inside, and cover with boards so that the bulbs in the open air are well protected from rain or dew, which would be sure to discolor them. We have, by years of careful selection and breeding, developed a strain which has no equal in uniformity and beauty of shape and color. **Pkt. 15 cts., ½oz. 35 cts., oz. 60 cts., ¼lb. $1.60, lb. $4.50.**

White Pickling. When matured, the tops die down, leaving beautiful and perfect little bulbs. The color is pure white, flavor mild and delicate, perfectly adapted for pickling and table use; and makes a pretty bunch Onion, especially if grown by the transplanting method. A valuable variety. Pkt. 15 cts., ½oz. 30 cts., oz. 50 cts., ¼lb. $1.35, lb. $3.75.

White Portugal, or Silverskin. A mild-flavored variety, used extensively for pickles. The Onions are tender and altogether fine. **Pkt. 10 cts., ½oz. 30 cts., oz. 55 cts., ¼lb. $1.50, lb. $4.**



White Portugal Onions

LEADING YELLOW KINDS

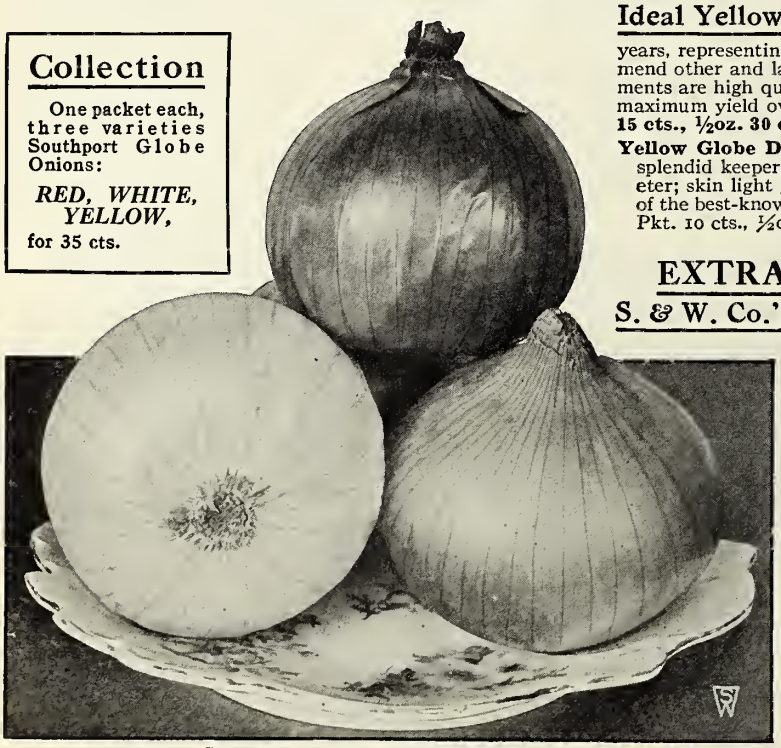
S. & W. Co.'s Southport Yellow Globe. The enormous quantities of this Onion annually sent to market prove its popularity, and it is more largely grown than any other sort. We can confidently claim superiority for our strain of seed; it produces large and uniformly spherical bulbs with very small necks. The largest diameter is below the center of the bulb. The color is a rich orange-yellow. Keeps splendidly. **Pkt. 15 cts., ½oz. 30 cts., oz. 55 cts., ¼lb. $1.50, lb. $4.**

Collection

One packet each, three varieties Southport Globe Onions:

RED, WHITE, YELLOW,

for 35 cts.



S. & W. Co.'s Southport Globe Onions

Ideal Yellow Globe. An Onion of the Southport type, but, as the result of very careful selection over a period of years, representing all that a general-purpose Onion should be. We recommend other and larger sorts for exhibition purposes, but where the requirements are high quality, mildness of flavor, maximum keeping qualities, and maximum yield over a given area, here is the Onion for you to grow. **Pkt. 15 cts., ½oz. 30 cts., oz. 55 cts., ¼lb. $1.50, lb. $4.**

Yellow Globe Danvers. Of more globular shape than the Southport; a splendid keeper, producing well-rounded bulbs about 2½ inches in diameter; skin light golden yellow; flesh white, crisp, and mild in flavor. One of the best-known Onions, and recommended strongly for the general crop. Pkt. 10 cts., ½oz. 25 cts., oz. 45 cts., ¼lb. $1.30, lb. $3.50.

EXTRA LARGE-GROWING KINDS

S. & W. Co.'s Selected Ailsa Craig. This Onion continues to be one of the largest. It is a very handsome, oval-shaped variety with pale straw-colored skin. Two of these Onions have been exhibited in England that weighed 8 pounds, and in some parts of Massachusetts it attains a weight of 3 pounds 4 ounces. For exhibition it is unexcelled. To attain its largest size it should be sown in the greenhouse in January and transplanted to the open in April. For a large Onion it is a splendid keeper, and for those who like an Onion raw we recommend it highly on account of its mild flavor and crystal wax-like appearance. **Pkt. 15 cts., ½oz. 40 cts., oz. 65 cts., ¼lb. $1.75, lb. $5.**

Ailsa Craig. (Originator's stock grown in England.) **Pkt. 50 cts.**

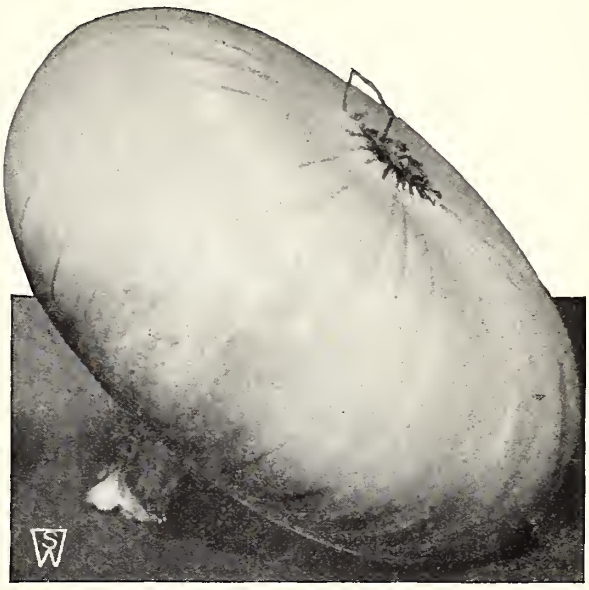
Gigantic Gibraltar. See Novelties, page 16. Pkt. 20 cts., ½oz. 45 cts., oz. 75 cts., ¼lb. $2, lb. $5.50.

Prizetaker. Uniform in shape; of immense size, measuring from 12 to 16 inches in circumference, while under special cultivation specimen bulbs have been raised to weigh from 2 to 3 pounds each; its pure white flesh is fine-grained, mild, and delicate. Pkt. 15 cts., ½oz. 30 cts., oz. 55 cts., ¼lb. $1.50, lb. $4.

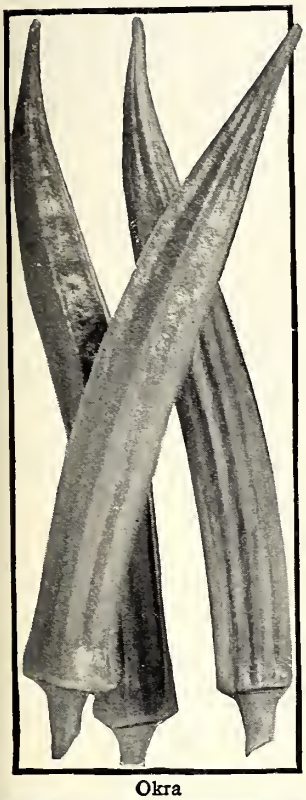
LONG-KEEPING RED ONIONS

S. & W. Co.'s Southport Red Globe. Very similar to Wethersfield in color, having a deep red skin, but differing in shape, being almost a perfect globe. Size large, flesh fine-grained, mild and tender. **Pkt. 15 cts., ½oz. 30 cts., oz. 55 cts., ¼lb. $1.50, lb. $4.**

Large Red Wethersfield. This is the standard red variety, and a favorite Onion in the East, where immense crops are grown for shipment. Bulb large, somewhat flattened, oval shape; skin deep purple-red; flesh purplish white, moderately fine-grained and stronger flavored than any of the other kinds. Very productive, the best keeper, and one of the most popular for general cultivation. It is more inclined to form large necks if planted on unsuitable soil than the Danvers, but is the best variety on poor or dry soil. **Pkt. 10 cts., ½oz. 25 cts., oz. 40 cts., ¼lb. $1.25, lb. $3.25.**



Large Red Wethersfield Onion



Okra

BERMUDA ONIONS

These are large, flat, quick-growing types, with a pleasant, mild flavor. We offer new-crop imported seed.

Red Bermuda. Pkt. 15 cts., ½oz. 40 cts., oz. 65 cts., ¼lb. $1.75, lb. $5.

White Bermuda. Pkt. 20 cts., ½oz. 45 cts., oz. 75 cts., ¼lb. $2, lb. $5.50.

ONION SETS

Sets will produce green, bunch or full-grown Onions much quicker than will seed. Multipliers, Potato Onions, and Shallots divide and increase in the soil. Egyptian Onions are hardy perennials, yielding green Onions every spring.

	Qt.	½pk.	Pk.
White Onion Sets	$0 45	$1 60	$3 00
Yellow Onion Sets	40	1 50	2 75
Yellow Ebenezer or Japanese.	45	1 60	3 00
Red Onion Sets	40	1 50	2 75
White Multiplier Onions	50	1 75	3 25

	Qt.	½pk.	Pk.
Yellow Potato Onions	$0 50	$1 75	$3 25
White Potato Onions	45	1 60	3 00
Shallots	55	2 00	3 75
Egyptian Top Onions (Fall delivery)	40	1 50	2 75

Garlic Sets

One pound will plant 200 feet of drill

CULTURE.—Garlic is used for a variety of flavoring purposes. Break up the sets or bulbs into the smaller scale-like portions and plant these 6 inches apart in rows 1 foot apart. As soon as the leaves have turned, the crop is matured, and may be harvested like the onion.

Garlic Sets. Lb. 50 cts., 5 lbs. $2.25.

OKRA, or GUMBO

One ounce will sow about 100 feet of drill

CULTURE.—Sow when the weather is warm and settled, in drills 1 inch deep and 4 feet apart; thin out to 12 inches apart in the drills. Okra requires 9 to 10 weeks from seed to maturity. Usual sowing period for New York, May 25 to June 10.

Lady Finger. A new variety from the South, very productive; extra-long, slender pods of fine round form. Pkt. 10 cts., oz. 20 cts., ¼lb. 45 cts., lb. $1.25.

Kleckley's Favorite. One of the best varieties. Pkt. 10 cts., oz. 20 cts., ¼lb. 45 cts., lb. $1.25.

Long Green. Long ribbed pods; very productive. Pkt. 10 cts., oz. 15 cts., ¼lb. 40 cts., lb. $1.

White Velvet. Very distinct in appearance; pods are perfectly round, smooth and of a white velvety appearance and of superior flavor. Pkt. 10 cts., oz. 20 cts., ¼lb. 55 cts., lb. $1.50.



Globe Onion Sets

PARSLEY

One ounce will sow about 150 feet of drill

CULTURE.—Parsley requires a rich, mellow and deep soil. Soak the seed for a few hours in tepid water, and sow early in the spring in drills 1 foot apart and ¼inch deep. Thin out the young plants to 4 inches. Hamburg Parsley should be treated the same as carrots.

Extra Double Curled. A standard market variety, used for garnishing and flavoring. The leaf is finely cut and curled and a vivid green in color. Handsome. Pkt. 10 cts., oz. 20 cts., ¼lb. 45 cts., lb. $1.25.

Champion Moss Curled. A particularly beautiful type. As its name implies, a bed of this has the appearance of fine moss. Pkt. 10 cts., oz. 20 cts., ¼lb. 55 cts., lb. $1.50.

Exhibition Curled. See Novelties, page 16. Pkt. 25 cts., 5 pkts $1.

Fern-leaved. This is a distinct variety, very different from the foregoing. We have the true type. Pkt. 10 cts., oz. 30 cts., ¼lb. 75 cts., lb. $2.



Extra Double Curled Parsley



Champion Moss Curled and Plain Parsley compared

PARSLEY, continued

Plain. Known widely as Italian Parsley. Used for flavoring. (See illustration.) Pkt. 10 cts., oz. 20 cts., ¼lb. 55 cts., lb. $1.50.

Hamburg or **Rooted.** The roots of this type resemble parsnips. They are served similarly or used for flavoring soups. Pkt. 10 cts., oz. 25 cts., ¼lb. 65 cts., lb. $1.75.

PEANUTS

CULTURE.—These require similar soil conditions to garden corn, and they take about as long to grow. Remove the outer shell carefully, taking care not to damage the kernels, and sow the latter in drills 2½ feet apart and 1½ inches deep. Allow 9 inches between one "nut" and the next in the row.

Improved Spanish. Though small, this is a quick-growing sort and is therefore particularly suitable for northern gardens. Pkt. 15c., lb. 45c.

California Long Red. Larger than the above but slower to mature. Plant this variety south of the latitude of New York. Pkt. 15 cts., lb. 45 cts.

PARSNIP

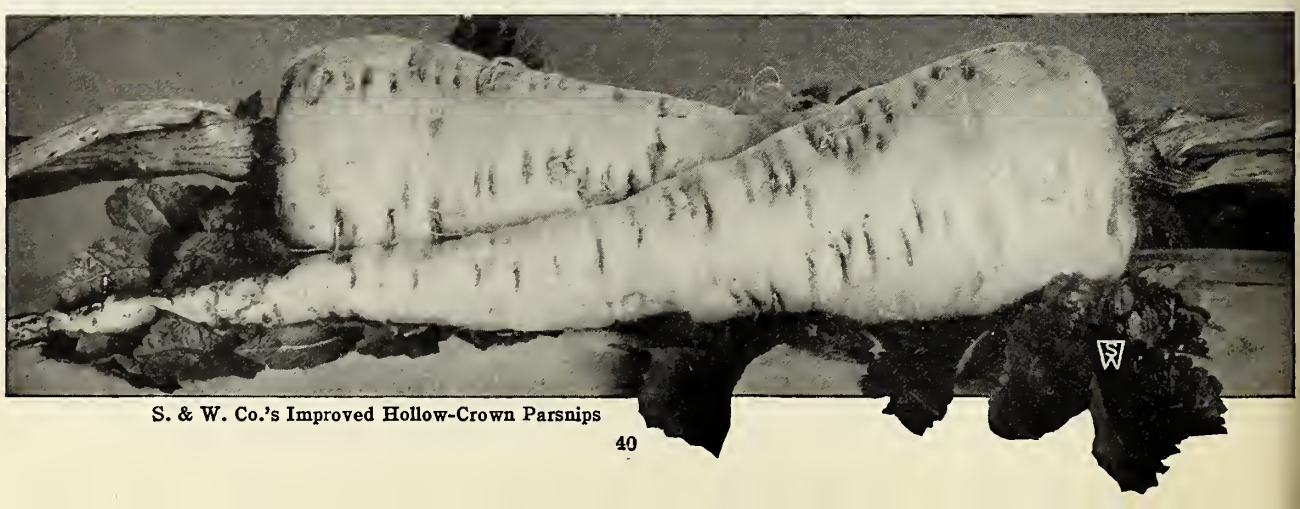
One ounce will sow about 200 feet of drill; 5 to 6 lbs. for an acre

CULTURE.—Sow as early in spring as the ground can be worked, in drills 18 inches apart, covering with fine soil to the depth of ½inch. The soil should be rich and deeply dug. The quality of the roots is much improved after a severe frost; in fact, they may be allowed to remain in the ground throughout the winter, as they are perfectly hardy.

S. & W. Co.'s Improved Hollow-Crown. A great improvement over the present Hollow-Crown variety; clean, well shaped and smooth. Smoothness in the root of a Parsnip is a matter of importance, as every housewife preparing it for the table will acknowledge. Excellent for table or exhibition. **Pkt. 10c., oz. 25c., ¼lb. 65c., lb. $1.75.**

S. & W. Co.'s New Intermediate. The root is somewhat flattened and top-shaped, about 6 inches long and 4 inches across the thickest part. It matures quickly and is therefore suitable for sowing as a second crop, following spinach or lettuce; or if put in when long parsnips are sown, may be pulled soon after midsummer. Particularly suitable for shallow land which ordinarily produces misshapen or fanged root-crops. **Pkt. 10 cts., oz. 35 cts., ¼lb. $1, lb. $3.**

Selected Exhibition. A type produced expressly for the grower for exhibition. Pkt. 25 cts., 5 pkts. $1.



S. & W. Co.'s Improved Hollow-Crown Parsnips



Perfection Pimiento. A fine variety, unique in shape and in its fine qualities

PEPPER

One ounce will produce about 1,000 plants

CULTURE.—Peppers are more sensitive to frost than most vegetables, and they should not be planted out until settled warm weather has arrived. The seed should be sown in a hotbed, coldframe, or if no better convenience is available, a box in a window; transplant later into rows 20 inches apart each way, and keep the soil clean and well stirred.

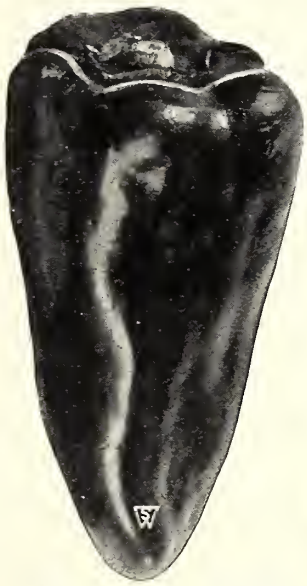
EIGHT SPLENDID SWEET PEPPERS

Perfection Pimiento. One of the best for the home-garden, both green and ripe. It is so smooth and uniform in shape that the skins can be easily slipped off after heating over a hot fire a few seconds or by boiling a few minutes in hot water. It can also be pared like an apple by using a sharp knife. The green Peppers can be pared best in this way. The hull or meat is from 2 to 3 times as thick as that of the Bell types, and yields about a half more edible product to the same measurement. The quality is very sweet and delicious and entirely free from pungency. In color, when ripe, it is a beautiful scarlet-red. It is very productive, yielding heavy crops until cut off by frost. This Pepper will be much sought and grown by canners for pimientos, pickles and pulp. **Pkt. 15 cts., ½oz. 50 cts., oz. 85 cts., ¼lb. $2.50.**

Chinese Giant. This is the standard large sweet Pepper. It is quite early to ripen and very productive for so large a variety. Productiveness may be increased by pinching the first or "king" blossoms which appear. They grow 4 or 5 inches broad at the top, and are of equal length. Quite uniform in size. The flesh is mild and unusually thick and makes an excellent salad sliced and served like tomatoes. Color green, changing to a glossy scarlet when ripe. **Pkt. 15 cts., ½oz. 65 cts., oz. $1.10, ¼lb. $3.**

Neapolitan (Jersey Sweet; White Cap). The two qualities which this Pepper possesses are its *earliness* and its *extraordinary yielding properties.* It is an upright-growing variety, that is, its fruits grow upwards and are not pendent. They are bright red, sweet, fine, and very tender. Commercial growers favor this Pepper, and find that it is in particular demand with pickling establishments. **Pkt. 15 cts., ½oz. 45 cts., oz. 75 cts., ¼lb. $2.25.**

Sunnybrook Cheese. A very prolific and popular canning variety. Fruits average 3 inches in diameter and 2 inches deep. The skin is smooth and of deep scarlet color and the flesh is thick and sweet. Pkt. 15 cts., ½oz. 50 cts., oz. 85 cts., ¼lb. $2.50.



Neapolitan. A sweet Pepper noted for its earliness and extraordinary yielding properties.

Ruby King. The handsome fruits are 4½ to 6 inches long, 4 inches thick, and bright red. Ruby King is used very largely for pickles, and it is equally suitable for slicing. The flavor of the fruits is mild and pleasant, with just a slight suspicion of piquancy, making them very tempting when served like cucumbers or tomatoes. (See illustration below.) **Pkt. 10 cts., ½oz. 45 cts., oz. 75 cts., ¼lb. $2.25.**

Large Bell, or Bull Nose. A large, early variety of pleasant flavor, though mild. This is the variety for green stuffed Peppers. Ripens into a bright red. Pkt. 10 cts., ½oz. 45 cts., oz. 75 cts., ¼lb. $2.25.

Sweet Mountain. Fruits 6 inches long by 4 inches thick, shining deep green when young and a handsome red when ripe. Flavor mild. Pkt. 15c., ½oz. 50c., oz. 85c., ¼lb. $2.50.

Topepo (The New Tomato-like Pepper). This splendid novelty, in appearance like a large golden Tomato, is described on page 17. **Pkt. 50 cts., 5 pkts. $2.**

A WONDERFUL LONG SWEET PEPPER

Anaheim Chili. A long type that is classed as a sweet Pepper; it has just sufficient suggestion of pungency to make it delicious. The fruits are very meaty, measuring 7 inches or more in length, with a diameter of 1 inch. It is highly valued as a green chili, canned chili made from it is a revelation, while ripe and red, served as a salad, it is excellent. Pkt. 15 cts., ½oz. 65 cts., oz. $1.10, ¼lb. $3.

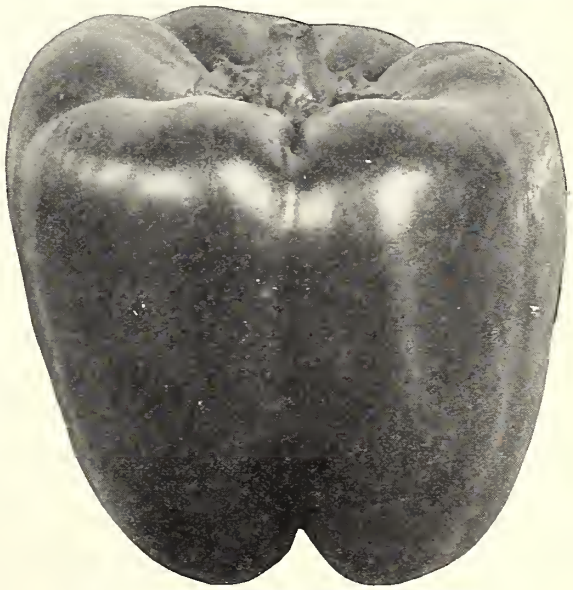
THREE HOT PEPPERS

Long Red Cayenne. Fruits about 4 inches long and 1 inch thick, bright red in color; very prolific; very hot. Used for pickling, both when green and when ripe. Pkt. 15 cts., ½oz. 60 cts., oz. $1, ¼lb. $2.75.

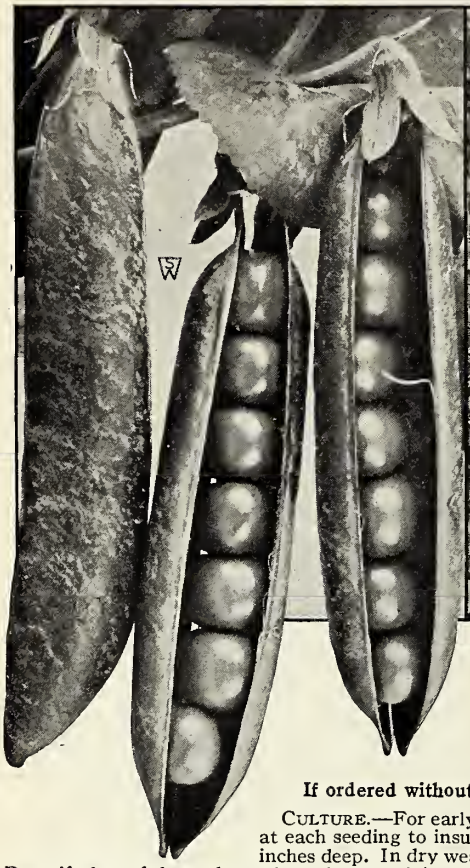
Tobasco. For the market and for making the well-known Tobasco sauce. A small and very pungent type. Pkt. 20 cts., ½oz. 65 cts., oz. $1.10, ¼lb. $3.

Cherry Red. Small, round fruit, rich scarlet in color, and extremely piquant. Pkt. 15 cts., ½oz. 60 cts., oz. $1, ¼lb. $2.75.

FOR THE VEGETABLE GARDEN, USE STUMPP & WALTER CO.'S
GENERAL GARDEN FERTILIZER
5 lbs. 50 cts., 10 lbs. 90 cts., 25 lbs. $1.75, 50 lbs. $3.25



S. & W. Co.'s Selected Ruby King Pepper





Laxtonian Pea. A wonderful medium dwarf variety that is unusually prolific. Full description on opposite page.

One pound will plant 100 feet of drill

PEAS

NORTHERN GROWN

If ordered without other seeds, add 5 cts. per ½lb., 10 cts. per lb., 15 cts. per 2 lbs. to the prices listed

CULTURE.—For early crops sow as early in spring as practicable, and again two weeks later. Use several varieties at each seeding to insure a succession throughout the season. Plant in single or double rows, 4 feet apart and 2 inches deep. In dry weather soak the Peas over night before planting. In the vicinity of New York the extra-early Peas, if planted from the 15th to the last of August, will produce a moderate crop for late picking when they will be found most acceptable.

Varieties marked * are wrinkled Marrows, and should be sown more thickly than the round Peas, and not until the ground has become warm, as they are more liable to rot. All wrinkled sorts are much superior in flavor to the round Peas.

EARLY SMOOTH-SEEDED SORTS

First of All or Pedigree Extra-Early. Extremely hardy and early. The first planting of Peas should be with First of All. It is a smooth-seeded variety, a splendid cropper; Peas very tender, of good flavor and carried in long, tightly filled pods. Height 2½ feet. **½lb. 25 cts., lb. 40 cts., 2 lbs. 75 cts., 5 lbs. $1.75, 15 lbs. $4.75.**

Early Bird. Combines the hardiness of the round-seeded types with the quality of the wrinkled Marrowfats. The plant grows 4 feet high, and therefore requires the support of brush, or strings. Throughout its height it bears profusely 4-inch pods closely packed with Peas of fine flavor. Early Bird is a few days earlier than Gradus when sown at the same time, but you may safely plant it ten days ahead of Gradus. **½lb. 25 cts., lb. 45 cts., 2 lbs. 85 cts., 5 lbs. $2, 15 lbs. $5.50.**

Petit Pois. Imported seed. The delicious tiny Peas which are served in the Paris hotels. **Pkt. 20 cts., ½lb. 35 cts., lb. 65 cts., 2 lbs. $1.25.**

Eight Weeks. } See Novelties, page 16. Pkt. 15 cts., ½lb. 30 cts.,
Market Surprise. } lb. 50c., 2 lbs. 90c., 5 lbs. $2.10, 15 lbs. $5.75.

EARLIEST WRINKLED SORTS

***World's Record.** Among early main-crop Peas of medium height, Gradus, or Prosperity, takes first place; happily named, indeed, on account of its high yield and superb flavor. In World's Record these points are more than maintained; the yield is as high and the quality, if anything, is enhanced. The great point in favor of the new sort is its *earliness*, the period from seed to maturity being less by a week than that of the standard Gradus. **½lb. 30 cts., lb. 50 cts., 2 lbs. 90 cts., 5 lbs. $2.10, 15 lbs. $5.75.**

***Gradus, or Prosperity.** Undoubtedly one of the most valuable sorts introduced up to the present time. The vine has heavy stems, with large, light green leaves and grows about 3 feet high. It produces uniformly large pods, measuring from 4 to 4½ inches in length, nearly round and well filled with very large, handsome Peas of the finest flavor; very early, ready for picking after First of All is through, and leaves little to be desired. Height 3 feet. **Pkt. 10 cts., ½lb. 25 cts., lb. 45 cts., 2 lbs. 85 cts., 5 lbs. $2, 15 lbs. $5.50.**

***Little Marvel.** A first-early Pea of the finest quality, better than American Wonder or Nott's Excelsior. The vines of dwarf, even growth, average 18 inches high, and are heavily set with fine pods, usually in pairs. The pods average 3½ inches in length, are square at the bottom, and are well filled with quite large, deep green Peas. The Peas are ready for picking fully as early as American Wonder, but the pods are larger and the vines bear a much heavier crop. All who desire a fine crop of an early, choice variety of Peas will be delighted with Little Marvel. Begins to bear just as Gradus is at its best. **Pkt. 10 cts., ½ lb. 25 cts., lb. 45 cts., 2 lbs. 85 cts., 5 lbs. $2, 15 lbs. $5.50.**

***Thomas Laxton.** A remarkably fine, early, wrinkled Pea, and we think destined to supersede Gradus. In many characteristics it resembles that excellent sort, but the pods differ in shape, and are certainly more numerous. The Peas are of extra-fine quality, tender and of a flavor not excelled by any other. It grows about 3 feet in height, but does not need brushing. Ready for picking at the same time as Sutton's Excelsior. It is a remarkably profitable market Pea, as it is always in demand and brings the best prices. Height 3 feet. **½lb. 25 cts., lb. 45 cts., 2 lbs. 85 cts., 5 lbs. $2, 15 lbs. $5.50.**

***Sutton's Excelsior.** A variety that calls for highest commendation; equal to Gradus in quality and considerably more productive. Ready for picking just after Gradus and Little Marvel. Height 18 inches. **½lb. 25 cts., lb. 45 cts., 2 lbs. 85 cts., 5 lbs. $2, 15 lbs. $5.50.**

NOTE.—The American Seed Trade generally has adopted the cental system of pricing Peas, Beans, and Corn. We therefore offer by weight instead of measure. One pound of Peas is equal to about 1 pint; 2 pounds to about 1 quart.

PEAS

NORTHERN GROWN

If wanted by mail, add 5c. per ½lb., 10c. per lb., 15c. per 2 lbs., to the prices listed

EARLIEST WRINKLED SORTS, Continued

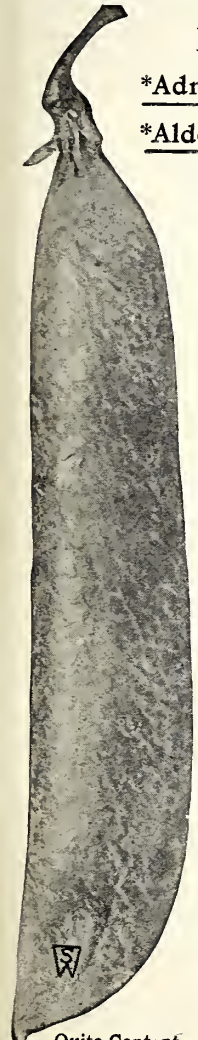
***Laxtonian.** A very fine dwarf early Pea. Unusually large pods, borne on long-growing, sturdy vines. Unlike many of its class, the large pods are filled with large, luscious Peas. It is ready for use about a week later than the very early sorts. The plant grows about 1½ feet high, and is of a rich dark green color, which proves it to be of vigorous constitution, and this enables it to resist the extreme conditions to which Peas are subjected in many sections of the United States. (See photograph on opposite page.) **½lb. 30 cts., lb. 50 cts., 2 lbs. 90 cts., 5 lbs. $2.10, 15 lbs. $5.75.**

***Early Morn.** This grand introduction maintains its position as one of the best early marrowfat Peas ever raised. Although so early, the seed should not be sown until the soil is in a fit condition to receive it in April, as it is a rapid grower. The pods are very large and well filled, and are often ready to pick several days after Gradus. Height about 4 feet. **½lb. 30 cts., lb. 50 cts., 2 lbs. 90 cts., 5 lbs. $2.10, 15 lbs. $5.75.**

***American Wonder.** A very early wrinkled Pea that will bear about the same time as Little Marvel, but is not so large or prolific. Height 1 foot. ½lb. 25 cts., lb. 45 cts., 2 lbs. 85 cts., 5 lbs. $2, 15 lbs. $5.50.



Alderman Peas



Quite Content
One of the largest-podded Peas in cultivation.

MIDSEASON AND MAIN-CROP

***Admiral Beatty.** See Novelties, page 16. **Pkt. 20c., ½lb. 35c., lb. 60c., 2 lbs. $1.10, 5 lbs. $2.50, 15 lbs. $7.25.**

***Alderman.** A distinctly different Pea in habit from those described in the Early list. On generous soils it grows to a height of 5 to 6 feet, and should be supported with brush or trellises. The pods contain seven large, elongated, dark green Peas of the highest quality, and follow in the wake of Thomas Laxton. The plants bear very profusely and the Peas bring the highest price in market. Height 5 feet. **½lb. 25 cts., lb. 45 cts., 2 lbs. 85 cts., 5 lbs. $2, 15 lbs. $5.50.**

***Quite Content.** One of the largest-podded Peas in existence and in season similar to Alderman. This variety is preferred by many growers to Alderman on account of its large pods. Height 5 feet. **½lb. 30 cts., lb. 55 cts., 2 lbs. $1, 5 lbs. $2.25, 15 lbs. $6.25.**

***Boston Unrivaled, or Telephone.** This variety is much like Alderman, with vines fully as tall, pods slightly smaller, and bears right up to the season of the very late sorts. The yield of pods is not so great and they are not so well filled as Alderman. The Peas are every bit as tender, but darker green in color and sweet. Height 5 feet. **Pkt. 10 cts., ½lb. 25 cts., lb. 45 cts., 2 lbs. 85 cts., 5 lbs. $2, 15 lbs. $5.50.**

***Potlach.** Really an improved Stratagem and, without a doubt, the best dwarf, extremely late Pea. Healthy bluish green vines, bearing loads of deep green pods; frequently an average of eight pods in pairs containing an average of seven fine, large Peas of superfine flavor. A continuous bearer from July 1 to 15 in most seasons. Height 2 feet. **Pkt. 10 cts., ½lb. 25 cts., lb. 45 cts., 2 lbs. 85 cts., 5 lbs. $2, 15 lbs. $5.50.**

***Champion of England.** Vines grow 4 to 5 feet high. Peas of excellent quality and delicious flavor. ½lb. 25 cts., lb. 45 cts., 2 lbs. 85 cts., 5 lbs. $2, 15 lbs. $5.50.

EDIBLE-PODDED SUGAR PEAS

Used in the same manner as wax beans

Luscious Melting Sugar. Large, broad pods, which are so brittle that they snap without any string. Height 5 feet. ½lb. 30 cts., lb. 55 cts., 2 lbs. $1, 5 lbs. $2.25, 15 lbs. $6.25.

Very Dwarf White Sugar. Unusually dwarf; very similar in habit to the American Wonder. The pods are of excellent melting quality. ½lb. 30 cts., lb. 55 cts., 2 lbs. $1, 5 lbs. $2.25, 15 lbs. $6.25.

Collections of Garden Peas

These collections embody our ideas of the best and most representative varieties. They are considered by experienced growers to be the most reliable sorts for both the amateur and professional gardener. We suggest that two sowings be made of each variety—the first as soon as the ground is ready and the weather is right, and the second two weeks later. The result will be a maximum yield, and the grower should be able to gather Peas daily over a period of five weeks.

The Following Five Varieties Comprise the Collections

Market Surprise. A wonderful, round-seeded variety, yielding in about 70 days from seed. Height 3 feet.
***Gradus.** The standard early wrinkled Pea, yielding generally in 80 days. Height 3 feet.
***Little Marvel.** A wrinkled sort, 1½ feet high. Requires about 85 days from seeding to maturity.
***Telephone.** The standard late tall wrinkled Pea. Produces its pods in about 90 days from seed. It grows 5 feet high.
***Potlach.** An extremely late wrinkled variety, yielding in 95 days from seeding. Height 2 feet.

THE COLLECTIONS

	Postpaid		Postpaid
One packet each of above five Peas	$0 50	**One pound each of above five Peas**	$2 10
Half-pound each of above five Peas	1 20	**Two pounds each of above five Peas**	4 00
		Five pounds each of above five Peas	9 50

Please do not ask us to make changes in these Collections. The fact that they are prepared in advance of our "rush" season enables us to offer them at a lower price than that of the separate varieties purchased in the usual way.

POTATOES

FOR SEED

CULTURE.—Any good, well-drained, fibrous loam will produce Potatoes under right climatic conditions. For early Potatoes, which mature in eight to ten weeks from planting, the soil must be particularly rich. A rich clover sod, manured and broken the year before and planted to corn, beans, peas, oats, etc., is in best shape for giving a good yield of nice, clean Potatoes. Stable manure had better be applied to the land the year before. S. & W. Co.'s Potato Manure, at the rate of up to 1,000 pounds to the acre if applied broadcast, or 400 to 600 pounds if applied mostly in the rows, may be used directly for the Potato crop. Open furrows 3 feet apart and 3 to 4 inches deep. Apply the fertilizer and run the furrower or small plow again in the furrow to mix the fertilizer with the soil and leave a mellow seed-bed. Then plant good-sized pieces, each containing not less than two or three eyes, 15 inches apart in the furrows for early Potatoes, and 18 inches apart for late ones. Return the soil with a coverer, small plow or other suitable tool. About 11 bushels or 4 barrels will plant an acre.

SEMESAN Bel. It controls diseases of seed potatoes, producing sprouts of healthy vigor, from which grow increased yields of clean, healthy plants and tubers. **Lb. $1.75, 5 lbs. $8, 25 lbs. $37.50.**



BEST EARLY POTATOES

Early White Albino. This wonderful new early Potato is a good cropper. The skin and flesh are extremely white, of exceptionally good cooking quality and very prolific, fully as early as the old Early Rose in maturing, and particularly valuable for the early market by reason of its fine shape and early maturity. The vines grow erect, and it is one of the best early varieties to withstand blight and disease. Plant this Potato early in good soil, give it good cultivation, and pleasing results will be sure at harvest-time. One grand thing in favor of this early Potato is its great keeping quality which makes it a valuable sort for the home- or market-garden. **½pk. $1.25, pk. $2, ½bus. $3, bus. $5.50, bbl. $12.**

Irish Cobbler. A variety that is more largely used as an early variety than any other. The flesh is white and of fine quality. **½pk. $1, pk. $1.60, ½bus. $2.75, bus. $4.50, bbl. $10.**

Early Bovee. (Selected.) Somewhat earlier than Early Rose. A medium-sized Potato; very productive. The dwarf growth of vines permits easy cultivation, insuring a good yield. ½pk. $1., pk. $1.75, ½bus. $3, bus. $5, bbl. $11.

Early Rose. (Selected.) A variety which has been grown extensively in some sections. A Potato of good size and fine quality. ½pk. $1, pk. $1.60, ½bus. $2.75, bus. $4.50, bbl. $10.

BEST MAIN-CROP POTATOES

Russet. Considered the finest Potato extant. The haulm is dark green and very distinct, while the variety seems to be as near blight-proof as a Potato can be. The tubers are round to oblong, very large, and from 6 to 10 are ordinarily obtained from a hill; the flesh is pure white and the skin has a roughened russet appearance. **½pk. $1, pk. $1.75, ½bus. $3, bus. $5, bbl. $11.**

Gold Coin. A splendid main-crop variety of remarkable productiveness and finest table quality; slightly oblong form; light golden skin; flesh pure white, fine-grained; cooks very dry. ½pk. $1, pk. $1.75, ½bus. $3, bus. $5, bbl. $11.

Green Mountain. (Selected Stock.) A late, heavy cropper of excellent quality; skin smooth and white; shape roundish flat; eyes few and shallow; a good keeper. ½pk. $1, pk. $1.60, ½bus. $2.75, bus. $4.50, bbl. $10.



Large Cheese Pumpkin

PUMPKINS

One ounce will plant 50 hills

CULTURE.—Plant in April or May, among corn, or in the garden, in hills 8 to 10 feet apart, and otherwise treat in the same manner as melons.

Large Cheese. A most popular variety. Fruit flattened, the diameter being two or three times more than the length; skin mottled light green and yellow, changing to rich cream-color as it matures; flesh tender and of excellent quality. **Pkt. 10c., oz. 25c., ¼lb. 65c., lb. $1.75.**

Sweet or **Sugar** (New England Pie). The fruits are medium to small in size, of a bright orange color, and in shape are round, flattened at the ends. The flesh is of remarkably good cooking quality, very thick, and deep yellow in color. Pkt. 10 cts., oz. 25 cts., ¼lb. 65 cts., lb. $1.75.

Winter Luxury. This we recommend as one of the best pie Pumpkins; an excellent keeper and enormously productive. It is very finely netted and in color it is a golden russet. Pkt. 10 cts., oz. 35 cts., ¼lb. 90 cts., lb. $2.50.

Mammoth Tours. This Pumpkin is of interest on account of its enormous size. The skin is pale gray-green in color, marbled deeper green, smooth and slightly ribbed. The flesh is yellow and of fair cooking quality. Pkt. 10 cts., oz. 35 cts., ¼lb. $1, lb. $2.75.

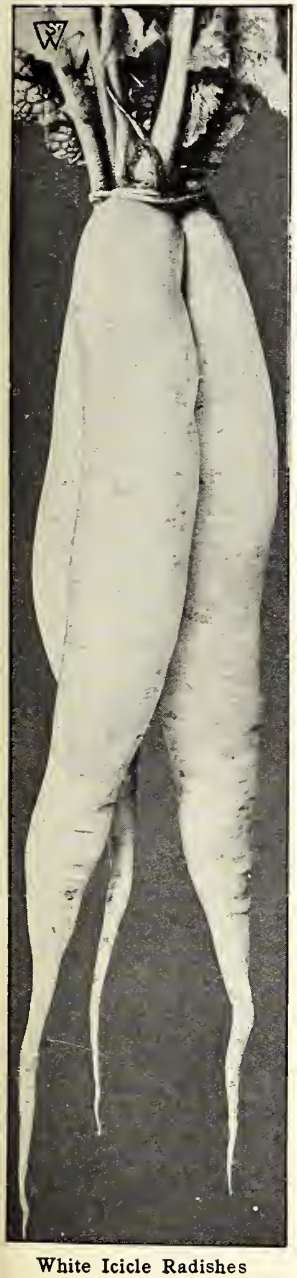
King of the Mammoths. Recommended where size is the chief consideration—200 pounds or more being not an unusual weight for a single specimen. The fruit is flat-round; the skin is yellow, as also is the thick flesh. Pkt. 10 cts., oz. 35 cts., ¼lb. $1, lb. $2.75.

Connecticut Field. Grown for stock purposes. Pkt. 10 cts., oz. 20 cts., ¼lb. 45 cts., lb. $1.25.

RADISH

One ounce will sow about 100 feet of drill

As early in the spring as the soil can be worked, sow any of the early round or olive-shaped varieties in rows, ½ inch deep, with a foot to 18 inches between the rows. Sow thinly. If seedlings appear closer than one inch apart, they should be "thinned out." Hoe frequently to encourage rapid growth which insures high quality. The early spring sorts serve the purpose until June 15, when Icicle and Cincinnati Market are at their best. The summer sorts are good until frost from repeated planting. The winter varieties should be pulled after light frosts and stored like beets. Both summer and winter Radishes should be "thinned" to stand from 4 to 6 inches apart in the row. After the middle of May, do not sow the flat, round, and olive-shaped spring sorts. Sow White Icicle, Cincinnati Market, and Chartier. These resist hot weather well. About July 1, sow the winter varieties.



White Icicle Radishes

EARLY ROUND AND OLIVE-SHAPED VARIETIES

Early Scarlet Turnip. Within 25 days from date of sowing it perfects handsome, flat roots, ¾ inch in diameter by ½ inch deep through. **Pkt. 10 cts., oz. 20 cts., ¼lb. 45 cts., lb. $1.25.**

Sparkler. Of rich carmine-scarlet color, with a very pronounced tip of the purest white. The roots, even when fully developed, are solid, crisp and sweet. It is equally well adapted for forcing in frames or growing in the open ground. While the leaves are small, they are sufficiently large for bunching. **Pkt. 10 cts., oz. 25 cts., ¼lb. 65 cts., lb. $1.75.**

Early Scarlet Globe. The best general-purpose variety in this class, perfecting handsome roots, as illustrated alongside, in from 28 to 35 days after sowing. Of distinct shape, brilliant color, short-leaved, crisp and white; an excellent variety for forcing. **Pkt. 10 cts., oz. 25 cts., ¼lb. 65 cts., lb. $1.75.**

White Box. An almost globe-shaped sort, slightly flattened, with pure white skin and crisp flesh. Unlike most other early sorts, it remains in fine table condition until quite overgrown. Ready in from 35 to 40 days. **Pkt. 10 cts., oz. 20 cts., ¼lb. 55 cts., lb. $1.50.**

Olive-shaped Scarlet. Flesh bright and crisp. Pkt. 10 cts., oz. 25 cts., ¼lb. 65 cts., lb. $1.75.

Olive-shaped White. Pkt. 10c., oz. 25c., ¼lb. 65c., lb. $1.75.

French Breakfast. The olive-shaped counterpart of Sparkler among the early round sorts, as described above. Mild and crisp. Pkt. 10 cts., oz. 20 cts., ¼lb. 45 cts., lb. $1.25.

Twenty-day Leafless. (See Novelties, page 17.) Pkt. 15 cts., oz. 45 cts., ¼lb. $1.30, lb. $3.50.

BEST EARLY LONG SORTS

White Icicle. The "best all-round" Radish for all purposes in the home-garden; also fine for market and splendid for growing under glass. Within 30 days from sowing seeds, the roots attain a length of 4 to 5 inches, by ¾ inch in diameter at the thickest part. The skin is thin, the flesh crisp and mild. It remains in fine table condition longer than any other early sort, regardless of shape. (See illustration.) **Pkt. 10 cts., oz. 20 cts., ¼lb. 55 cts., lb. $1.50.**

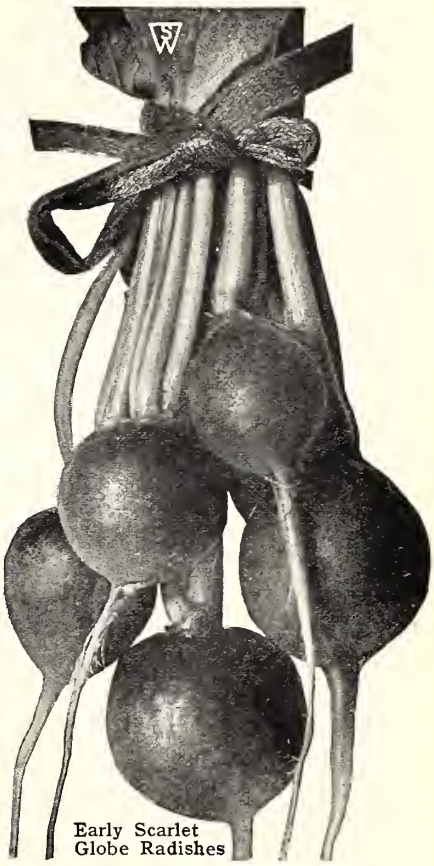
Cincinnati Market. By far the best strain of the long, scarlet, short-top Radishes. Roots 6 to 7 inches long, an inch thick through, are produced within 35 days after sowing and they remain in perfect condition for the best part of a week. Skin rosy scarlet, blending into pure white at the tip. It is well to remember that the long sorts require a deep, rich soil, free from stones and of a loose, sandy nature, in order to develop perfectly. **Pkt. 10 cts., oz. 20 cts., ¼lb. 55 cts., lb. $1.50.**

SUMMER VARIETIES

Long Scarlet Chartier, or **Shepherd.** This might be considered "the connecting link" between the foregoing sorts and the very much later kinds that follow. Long Scarlet Chartier is ready in about 45 days after sowing. The color at the top is crimson, running into pink about the middle, and from thence downward is a pure white. Pkt. 10 cts., oz. 20 cts., ¼lb. 55 cts., lb. $1.50.

Early Golden Yellow Oval. Absolutely unsurpassed in heat-resistance. When ready for use, the Radishes average 1½ to 2 inches in diameter and have a beautiful, golden yellow skin, which should be removed when preparing roots for table. Flesh pure white, mild, crisp, and solid. Pkt. 10 cts., oz. 30 cts., ¼lb. 75 cts., lb. $2.

White Strasburg. Shape tapering; skin and flesh both white; excellent summer variety. Pkt. 10c., oz.20c., ¼lb. 45c., lb. $1.25.



Early Scarlet Globe Radishes

LONG-KEEPING WINTER RADISHES

Sakurajima. A Japanese sort which reaches truly remarkable size. The circumference of some is 43 inches, the length 21 inches. The skin is white and the flesh is always crisp and tender. The taste is more delicate than our American varieties, and we believe that this variety will become popular. Pkt. 10c., oz. 35 cts., ¼lb. $1, lb. $3.

California Mammoth White Winter. A white-fleshed Radish of excellent quality. Pkt. 10 cts., oz. 35 cts., ¼lb. 90 cts., lb. $2.50.

Rose China. Bright rose color; flesh firm and piquant; fine for winter use. Pkt. 10c., oz. 20c., ¼lb. 55c., lb. $1.50.

Long Black Spanish. The popular winter sort. Pkt. 10 cts., oz. 25 cts., ¼lb. 65 cts., lb. $1.75.

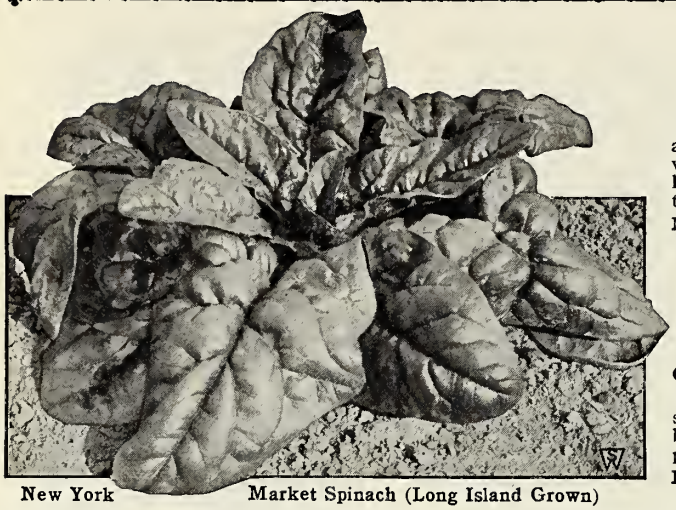
Round Black Spanish. Thick black skin and pure white flesh. Pkt. 10 cts., oz. 25 cts., ¼lb. 65 cts., lb. $1.75.

RHUBARB

CULTURE.—Plant the roots in well-manured land, 3 feet apart. Sow seed in spring in drills a foot apart; transplant the following season 3 feet apart. One ounce of seed should produce about 1,000 roots.

Rhubarb Roots. 15 cts. each, $1.50 per doz.; extra-strong clumps, 25 cts. each, $2.50 per doz.; forcing clumps, 50 cts. each, $5 per doz.

Rhubarb Seed. The variety **Victoria;** has given good results for many years. Pkt. 10 cts., oz. 35 cts., ¼lb. $1, lb. $3.



New York Market Spinach (Long Island Grown)

SALSIFY (Vegetable Oyster)

One ounce will sow about 50 feet of drill

CULTURE.—Sow the seed early in spring, in drills 12 inches apart and 1 inch deep, thinning out the young plants to 6 inches. The roots will be ready in October, when a supply should be taken up and stored like carrots. Those remaining will suffer no injury by being left in the ground until spring.

Mammoth Sandwich Island. Tender and delicious. Superior to all other sorts. Pkt. 10 cts., oz. 35 cts., ¼lb. $1, lb. $3.

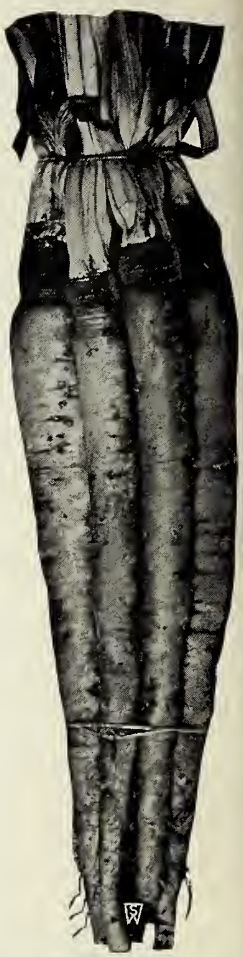
SCORZONERA

(Black Salsify)

One ounce will sow about 50 feet of drill

CULTURE.—Cultivate the same as salsify. The roots should not be scraped, but simply washed, boiled tender, then peeled and served like asparagus.

Improved. Pkt. 15 cts., oz. 65 cts., ¼lb. $1.75, lb. $5.



Mammoth Sandwich Island Salsify

SPINACH

One ounce will sow about 100 feet of drill

CULTURE.—Sow in March or April in drills an inch deep and 14 inches apart; again in August or September. Spinach delights in very rich soil—in fact, it is of no use sowing in a poor one.

S. & W. Co.'s New York Market. This Spinach grows rapidly and produces unusually large, thick, crumpled leaves of beautiful green. Properly cultivated and manured, the plants very often measure 2 feet across, and stand the winter better than any other sort of Spinach. **Pkt. 10 cts., oz. 20 cts., ¼lb. 55 cts., lb. $1.50.**

S. & W. Co.'s Savoy-leaved. A variety highly valued alike by market-growers and home-gardeners. The leaves are wrinkled and crumpled, resembling, to an extent, the Savoy cabbage. The variety is profitable on account of the heavy yield of produce, and it is particularly hardy. **Pkt. 10 cts., oz. 15 cts., ¼lb. 30 cts., lb. 75 cts.**

S. & W. Co.'s Large Thick-leaved. A splendid variety for the market-grower and trucker. The leaf is large and very thick. The fact that Thick-leaved is a type that is slow to run to seed makes it a favorite for late spring and early fall seedings. **Pkt. 10 cts., oz. 15 cts., ¼lb. 30 cts., lb. 75 cts.**

Long Season. A distinct variety, standing from two to three weeks longer than any of the other sorts in this climate without going to seed. Pkt. 10 cts., oz. 15 cts., ¼lb. 30 cts., lb. 75 cts.

Monstrous Viroflay. A fine selection of the old lettuce-leaved Spinach. Excellent for summer use. Pkt. 10 cts., oz. 15 cts., ¼lb. 30 cts., lb. 75 cts.



Large Thick-leaved Spinach. A variety that is slow to "bolt" to seed

Victoria Long-Standing. A variety suitable alike for spring and fall seeding. It is of low, compact habit; leaves shining dark green and heavily crumpled, forming a dense, flat rosette with very short petioles. Victoria is a great favorite with the market-grower on account of the slowness with which it shoots to seed. Pkt. 10 cts., oz. 15 cts., ¼lb. 30 cts., lb. 75 cts.

Prickly, or Winter. The hardiest Spinach, and a variety of actual merit. Used chiefly for latest fall seedings. Pkt. 10 cts., oz. 15 cts., ¼lb. 30 cts., lb. 75 cts.

S. & W. Co.'s Emerald Standing. See Novelties, page 17. Pkt. 10 cts., oz. 20 cts., ¼lb. 45 cts., lb. $1.25.

Perpetual Spinach. (See Novelties, page 17.) Pkt. 15c., oz. 45 cts., ¼lb. $1.30, lb. $3.50.

NEW ZEALAND SPINACH

(Tetragonia expansa)

A half-hardy annual cultivated for its young leaves which form an excellent substitute for Spinach. The plants grow very vigorously, do not run to seed, and withstand drought much better than Spinach. New Zealand Spinach should therefore find a place in every garden, to furnish a summer supply of green boiled vegetables. It is recommended for use, also, on soils too poor to carry Spinach of the true type, as it grows naturally on dry upland situations.

CULTURE.—Sow during May, in drills which should be at least 2 feet apart, as the plants spread rapidly. Thin to 9 inches between the plants in the row. Keep the surrounding soil well stirred and pinch off the young leaves and shoots freely as required, when others will be produced quickly in their place right through the summer. One seeding will suffice for a whole season, as the plants produce continuously until frost.

Imported Seed of high vitality and best quality. Pkt. 10 cts., oz. 20 cts., ¼lb. 55 cts., lb. $1.50.



Green Lyon. The smooth-leaved type with short, thick white "Chards" or stems.

SWISS CHARD

Spinach Beet

One ounce will sow about 100 feet of drill

The plants are cultivated for the leaves which are used for "greens," the same as spinach or beet-tops; they are equal in quality and easier to prepare than spinach, and far superior to beets. Sow as early in spring as the ground can be worked, in rows 12 inches apart, and thin out to 5 inches apart in the rows. As it grows, thin out for use. It can be used all summer when spinach is not available.

Mammoth New York. This is a new and quite distinct sort, medium green in color, and of large size. The leaves are smooth, and the stalks are solid, thick, and of a pearly whiteness. Careful breeding has entirely eliminated the earthy flavor which many Chards possess. We anticipate a large demand for this variety. **Pkt. 20 cts., ½oz. 55 cts., oz. 95 cts., ¼lb. $2.50.**

Giant Lucullus. Plants of this variety grow to a height of 2 to 2½ feet. The stalks are quite thick, 1½ inches broad, heavily ribbed and from 10 to 12 inches long below the leaf. The extra-large leaves are sharply pointed at the top, while in texture they are heavily crumpled. The leafy portion of the foliage is cooked and served in the same manner as spinach. The leaves and stalks, served as separate vegetables, afford two distinct dishes from the same plant at one time. **Pkt. 10 cts., oz. 30 cts., ¼lb. 75 cts., lb. $2.**

Green Lyon. A vigorous-growing, stocky type with smooth, deep green leaves and broad, thick stalks. A very popular variety. **Pkt. 10 cts., oz. 25 cts., ¼lb. 65 cts., lb. $1.75.**



Giant Lucullus. A tall Swiss Chard with deeply wrinkled and crumpled leaves

SEA KALE

One ounce will produce about 300 plants

Sow an inch deep in drills 2 feet apart, thin out to 6 inches, and the next spring plant in hills 3 feet apart. Sea Kale is cultivated somewhat like asparagus and, like it, the crop is not available until the third year from seed, after which the bed will bear for a number of years. The blanched leaf-stalks are boiled and served with cream sauce. A very usual method of cultivation is to dig the roots and "force" them during winter in the same way as Witloof is grown. **Pkt. 20 cts., ½oz. 50 cts., oz. 90 cts., ¼lb. $2.40, lb. $6.50.**

SORREL

One ounce will sow about 100 feet of drill

CULTURE.—Sow early in the spring in drills 6 to 8 inches apart.

Garden. Used for salads, and much esteemed on account of its pleasant acid flavor. Also widely used in many sections of the country as a boiled vegetable. The plant is perennial, and will yield for several years if left undisturbed. Pkt. 20 cts., oz. 65 cts., ¼lb. $1.75, lb. $5.

TOBACCO

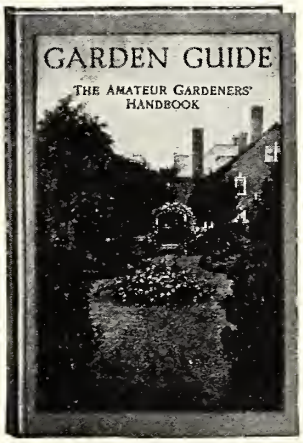
One ounce of seed will produce sufficient plants for one acre

Sow under glass during February and plant out, 3 feet apart each way, during early June.

Connecticut Seed-Leaf. A variety which can be used for cigar wrappers and for general purposes. Pkt. 10 cts., oz. 75 cts.

Narrow-Leaf Oronoko. This is widely used in Virginia for cigar fillers and as a cigarette tobacco. Pkt. 10 cts., oz. 75 cts.

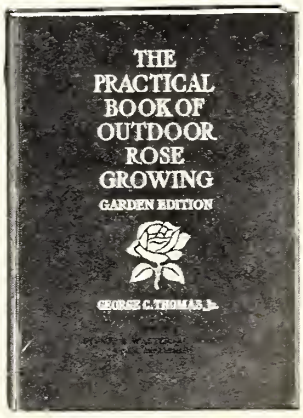
Quesnel. Very extensively grown in the Province of Quebec, Canada, and used for pipe smoking; strong, pungent flavor. Pkt. 10 cts., oz. $1.



Garden Guide

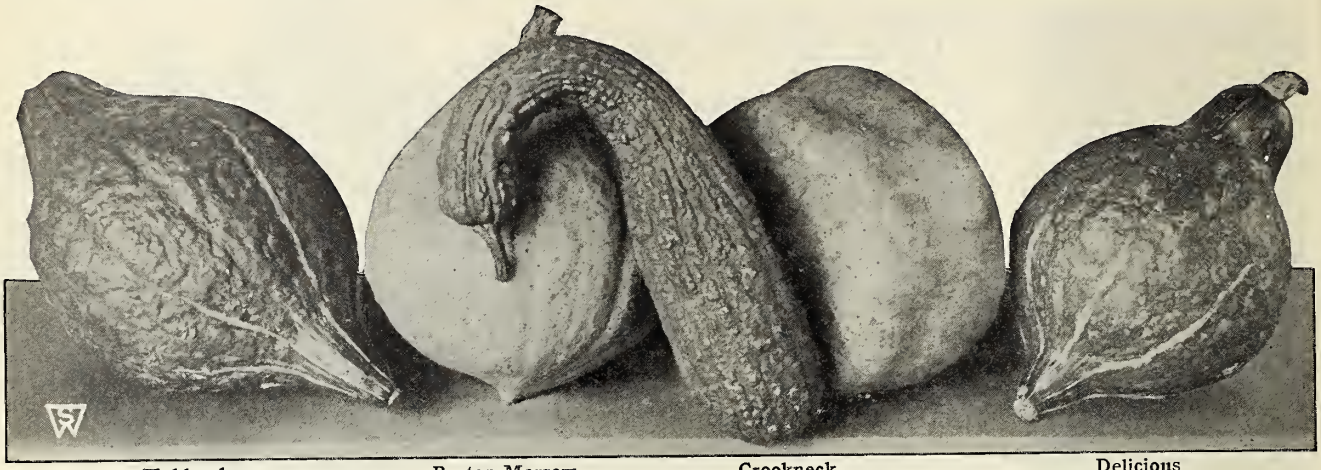
The Amateur Gardeners' Handbook

A complete handbook for the amateur gardener. Has wonderful chapters devoted to the Vegetable, Flower, and Fruit-Garden, with practical planting plans. It tells you how to prepare and fertilize your ground, how to deal with insect pests, how to prune, propagate, spray; in fact, covers every step from spading to preserving the harvest. 384 pages, **$1,** mailed free.



The Practical Book of Outdoor Rose Growing

To go out into the garden at any time of the year and gather roses is the ambition of the amateur gardener. This book tells in simple language how this may be done. The author, Mr. G. C. Thomas, is an authority on this flower, and his book is most comprehensive. De luxe edition, 15 colored plates, 224 pages, **$1.25,** mailed free.



Hubbard | Boston Marrow | Crookneck | Delicious

SQUASH

One ounce of Early Squash will plant about 25 hills
One ounce of Vegetable Marrow will plant about 50 hills

CULTURE.—The Squash succeeds best in good rich soil. It is not advisable to plant before May 15. Sow in hills in the same manner as cucumbers and melons.

SUMMER VARIETIES

Long Island White Bush. A selection of the Old White Bush Scalloped, and a vast improvement upon it, having less prominent ridges and being much deeper, so that a single Squash actually contains nearly twice as much weight for the same cubic measurement as the old sort. In addition to this, it is of finer quality and very prolific. **Pkt. 10 cts., oz. 30 cts., ¼lb. 75 cts., lb. $2.**

Giant Bush Summer Crookneck. The Crookneck class of Squash surpasses in quality any of the summer varieties, and in the Giant Bush we have the delicious buttery flavor of the original sort, but of just double the size. **Pkt. 10c., oz. 25c., ¼lb. 65c., lb. $1.75.**

Delicata. Early and very prolific; of oblong shape. Ground color orange-yellow, splashed and striped with very dark green. Although of small size, the Squashes are solid and heavy, while the quality is rich and dry. Pkt. 10 cts., oz. 35 cts., ¼lb. $1, lb. $3.

Fordhook. Although a summer Squash, Fordhook will also keep well for winter use. The fruits are pointed, nearly a foot long, and about 5 inches in diameter; the rich, buttery flavor is quite distinct and very fine. Pkt. 10 cts., oz. 30 cts., ¼lb. 75 cts., lb. $2.

Golden Custard. Mammoth strain of the Early Yellow Scalloped Bush. Quality excellent. Pkt. 10 cts., oz. 30 cts., ¼lb. 75 cts., lb. $2.

FALL OR WINTER VARIETIES

Chicago, or Warted Hubbard. A selection of the largest and best rough-skinned specimens of Green Hubbard. Ideal for the home market. Vines of strong, robust growth; fruits large, heavily warted, splendid shape and dark green; flesh rich and dry. **Pkt. 10 cts., oz. 30 cts., ¼lb. 75 cts., lb. $2.**

Golden Hubbard. For the private garden. The fruits are of the same shape as the Green Hubbard, except that they average one-half to one-third less in size. Flesh deep gold, much richer in color than Hubbard. Cooks dry and of rich flavor. **Pkt. 10 cts., oz. 30 cts., ¼lb. 75 cts., lb. $2.**

Hubbard. Bluish green color, occasionally marked with brownish orange. Will keep from September to May. **Pkt. 10 cts., oz. 30 cts., ¼lb. 75 cts., lb. $2.**

Boston Marrow. A very popular Squash for fall or winter use. Bright orange color, flesh yellow; oval in form. A splendid keeper and excellent for pies. Pkt. 10 cts., oz. 30 cts., ¼lb. 75 cts., lb. $2.

Delicious. No Squash approaches it in its remarkable combination of fineness and compactness of grain, dryness, sweetness, and exceeding richness of flavor. It grows to weigh from 5 to 10 pounds, and is in its prime in mid-autumn and early winter. Pkt. 10 cts., oz. 35 cts., ¼lb. 90 cts., lb. $2.50.

VEGETABLE MARROW

A type of Squash that always occupies an important place in European gardens, and one which is considered superior in many respects to our American varieties of Summer Squash. Cultivation is similar, although to obtain quickest and largest yields it is often grown on spent hotbeds or in a few inches of soil placed on a manure-pile. The Marrows are gathered before they ripen—usually in about a similar stage of maturity to that of Cucumbers when gathered for slicing. They are peeled, divided, and the seeds are removed; then cut into 3-inch squares, boiled until tender and served as a melting and delicious side dish with cream sauce.

Long Green Trailing. The fruits are about 20 inches in length and 3 or 4 inches in diameter. The skin is dark green, marbled with a paler shade. **Pkt. 10 cts., oz. 35 cts., ¼lb. $1, lb. $3.**



Long White Trailing Vegetable Marrow

Long White Trailing. The fruit is a little shorter than the Long Green Trailing, but otherwise it is similar in shape. The skin is smooth and of a yellowish white. The flesh is remarkably tender. **Pkt. 15 cts., oz. 35 cts., ¼lb. $1, lb. $3.**

Moore's Cream. An improved small-fruited variety; the fruits are oval in shape, cream-colored and of a very delicate flavor. Pkt. 15 cts., oz. 45 cts., ¼lb. $1.30, lb. $3.50.

Italian Vegetable Marrow (Cocozelle Squash). A non-trailing type producing oblong fruits a foot in length and about 5 inches in diameter; handsomely mottled dark green and light. A great favorite. **Pkt. 10 cts., oz. 35 cts., ¼lb. $1, lb. $3.**

Mixed Vegetable Marrow. Trailing and non-trailing, all varieties in combination. Pkt. 15 cts., oz. 35 cts., ¼lb. 90 cts., lb. $2.50.



Early White Milan Turnip. One of the earliest varieties in cultivation

TURNIP

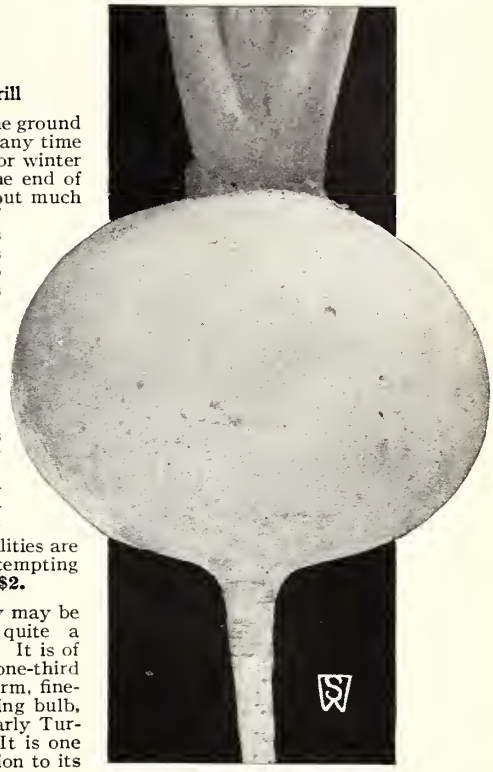
One ounce will sow about 150 feet of drill

CULTURE.—For early Turnips, sow as soon as the ground opens in spring. Rutabagas should be sown from any time in July to first of August; but the other kinds, for winter use, may be sown from the middle of July to the end of August. Turnips are generally sown broadcast, but much larger crops are obtained (particularly of the Rutabagas) by cultivating in drills 18 inches apart, and thinning to 6 inches in the drill. Sow in drills, one pound to the acre; broadcast, two to three pounds to the acre.

FINE WHITE-FLESHED TYPES

Early White Milan. As early as the Early Purple-Top Milan and possessing all of its good qualities. The entire "bulb," inside and out, is clear ivory-white in color; the outer surface is perfectly smooth. It grows so quickly that even the outer surface of the "bulb" is quite tender. Its table qualities are unequaled, being of the most delicate flavor and tempting appearance. **Pkt. 10c., oz. 30c., ¼lb. 75c., lb. $2.**

Purple-Top White Globe. This variety may be grown to quite a large size, without developing signs of coarseness. It is of spherical shape, the skin white with the upper one-third colored reddish purple. The flesh is pure white, firm, fine-grained, and of superior flavor. A handsome looking bulb, rapidly taking the lead of all other varieties of early Turnips for market and home-gardening purposes. It is one of the best sorts to store for winter, and, in addition to its fine table qualities, it is excellent and economical for stock-feeding. **Pkt. 10 cts., oz. 20 cts., ¼lb. 55 cts., lb. $1.50.**



Snowball. A particularly refined table Turnip

Snowball. An excellent first-early, globe-shaped root; smooth, clean, and free from all coarseness. A variety that is recommended particularly to the home-gardener on account of its splendid table qualities. **Pkt. 10 cts., oz. 20 cts., ¼lb. 55 cts., lb. $1.50.**

Red-Top Strap-Leaf. A very popular type, maturing in about two months from sowing. The roots are flat, marked with reddish purple on the upper portion; the flesh is pure white and of fine quality. Pkt. 10 cts., oz. 20 cts., ¼lb. 45 cts., lb. $1.25.

Early Purple-Top Milan. An excellent smooth-skinned flat Turnip; the upper portion is tinted purple, but the flesh is pure white, delicate, and sweet. Pkt. 10 cts., oz. 25 cts., ¼lb. 65 cts., lb. $1.75.

Long White, or **Cow Horn.** A quick-growing, long-shaped variety; flesh fine-grained and sweet, excellent for table use. Pkt. 10 cts., oz. 20 cts., ¼lb. 55 cts., lb. $1.50.

White French, or **Sweet German.** A delicate-flavored variety; an excellent keeper and fine for table use. Pkt. 10 cts., oz. 20 cts., ¼lb. 55 cts., lb. $1.50.

YELLOW-FLESHED TYPES

Golden Ball, or Orange Jelly. This is the most distinct yellow Turnip we know. The flesh is of a very fine texture, making it one of the best table varieties. Its beautiful color and fine flesh have earned for it the synonym of "Orange Jelly," which well describes its appearance when ready for the table. The bulb is of medium size, with small tap-root, and is early in maturing. **Pkt. 10 cts., oz. 25 cts., ¼lb. 65 cts., lb. $1.75.**

Yellow Aberdeen. A very hardy and productive variety of fine form and excellent quality. It has a purple top, keeps remarkably well, and is excellent both for the table and for stock. Pkt. 10 cts., oz. 20 cts., ¼lb. 45 cts., lb. $1.25.

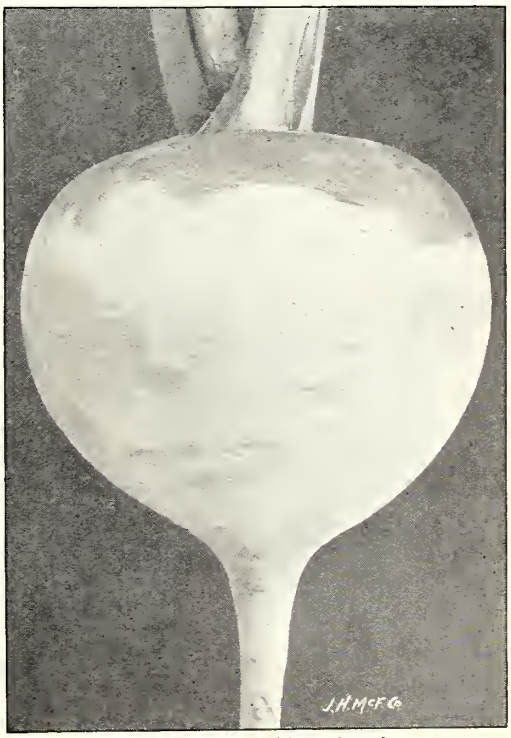
Yellow Stone. In shape a perfect globe, uniform, and of medium size; the color is pale yellow, and the quality is of the best, being very melting and buttery. A favorite variety that is to be recommended. Pkt. 10 cts., oz. 20 cts., ¼lb. 45 cts., lb. $1.25.

AN ALL-LEAF TURNIP

Seven Top. In this variety there is but little development of root. The leaves, however, are very numerous and large, and the vegetable is recommended to those who esteem "Turnip-tops," as a particularly healthful and palatable green cooked vegetable, many considering it superior to spinach. **Pkt. 10 cts., oz. 25 cts., ¼lb. 65 cts., lb. $1.75.**

RUTABAGA (Russian or Swedish Turnip)

S. & W. Co.'s Long Island Improved. This special strain of Rutabaga is grown on Long Island by a very careful grower. It is of a remarkably uniform shape and fine quality, and is also a splendid keeper. It grows to a large size, the skin is smooth, and flesh is beautiful yellow and fine-grained. **Pkt. 10 cts., oz. 20 cts., ¼lb. 45 cts., lb. $1.25.**



Purple-Top White Globe Turnip



Chalk's Early Jewel Tomato

TOMATO

One ounce will produce about 1,000 plants

CULTURE.—The seed may be sown in a hotbed from about the second week in February up to the end of April, in drills 5 inches apart and ¼inch deep. When the plants are about 2 inches high they should be transplanted about 4 inches apart, or planted in 4-inch pots, allowing a single plant to a pot. About May 15, the plants may be set out in the open ground, 3 feet apart. Water freely at the time of transplanting. Sufficient plants for a small garden may be started by sowing a few seeds in a shallow box or flower-pot and placing it in a sunny window. For a final seeding it is not too late to sow seed during June, using early varieties and sowing in the open ground. The fruit is greatly improved in quality if the vines are tied to a trellis or to stakes.

Stone. By far one of the best and most reliable of the main-crop red Tomatoes and the standard and general favorite with truckers and canners. The plant is very vigorous and the deep red fruits are produced freely; they are uniform, large, round, smooth, meaty, and possess very little core. The flavor is fine and non-acid. Stone is superior to any other main-crop Tomato for its heavy yield and high quality. We offer a specially selected stock. **Pkt. 15 cts., oz. 50 cts., ¼lb. $1.40, lb. $4.**

Earliana. **The Earliest Red Tomato.** The plants are of compact growth, with short, close-jointed branches, setting the fruit very freely in the center. The Tomato is of uniform size, averaging 3 inches in diameter, and from 2 to 2½ inches in depth; solid, with few seeds, making a splendid variety for shipping. **Pkt. 10 cts., ½oz. 40 cts., oz. 65 cts., ¼lb. $1.75, lb. $5.**

Ponderosa. Enormous size is the chief characteristic of this variety. Few Tomatoes equal it in this respect, and while slightly ribbed, it is very solid and luscious, making it fine for the family garden. The fruit is deep purple, oblong in form, ridged or ribbed, and with small seed-cells. They frequently weigh one pound or more each. The flavor is good, and we recommend Ponderosa for the home-garden. **Pkt. 15 cts., ½oz. 60 cts., oz. $1, ¼lb. $3.25, lb. $10.**

Crimson Cushion, or **Beefsteak.** The largest of the bright red Tomatoes. Crimson Cushion is more symmetrical in shape than Ponderosa and is much thicker through from stem to blossom end; in fact, so marked is this characteristic that it is frequently almost round. The color is brilliant scarlet-crimson, untinged with purple, and the fruit ripens up almost to the stem. The flesh is firm and "meaty," and of superb quality. **Pkt. 15 cts., ½oz. 50 cts., oz. 90 cts., ¼lb. $2.40, lb. $6.50.**

Bonny Best. Considered among the best of the early sorts. The fruits are bright red in color, of medium size, and are produced in large quantities. **Pkt. 10c., ½oz. 40c., oz. 65c., ¼lb. $1.75, lb. $5.**

CHALK'S EARLY JEWEL. About a week later than Earliana. It is of uniformly large size; of brightest red, deep fruited and solid. Bears splendid, large-sized Tomatoes throughout the season, and for quantity and quality of fruit it is easily without a rival among the best extra-earlies. Pkt. 10 cts., ½oz. 40 cts., oz. 65 cts., ¼lb. $1.75, lb. $5.

MATCHLESS. The color is rich cardinal-red. The skin is so tough that it is a splendid keeper and shipper, and is less liable to crack in wet weather than any other large Tomato. Unsurpassed for market or for table. The plant is a strong grower, and is very productive, bearing with undiminished vigor until frost. The fruit is free from core, and the seed-spaces are comparatively small. In flavor among the best. Pkt. 10 cts., ½oz. 40 cts., oz. 65c., ¼lb. $1.75, lb. $5.

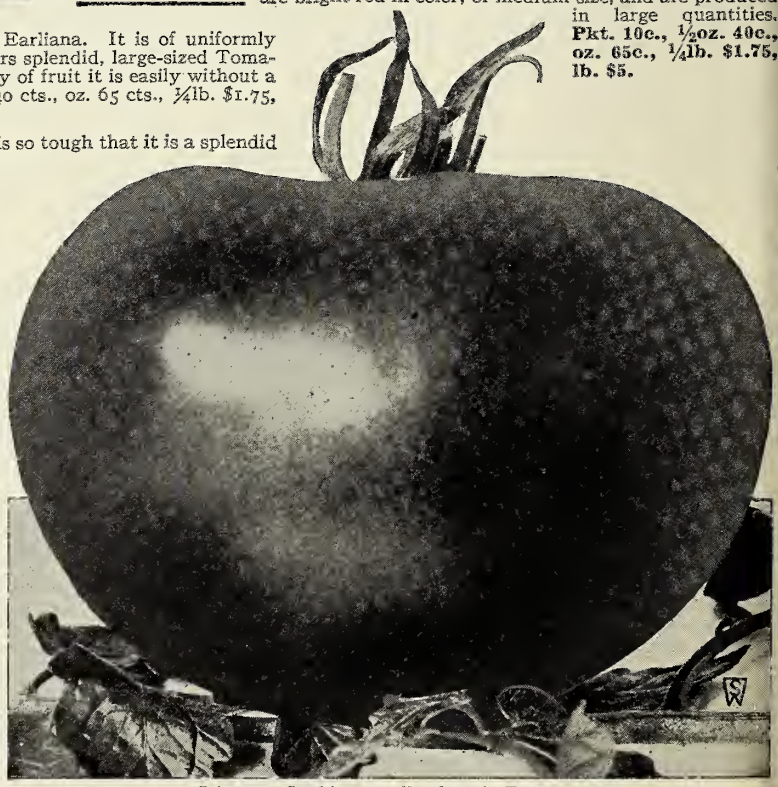
S. & W. CO.'S EXHIBITION STRAIN OF NEW GLOBE. Considered the best type of Globe Tomato. Very smooth, solid, firm, delicious, with few seeds, and ripens evenly. Color a beautiful glossy rose, tinged purple, and a splendid shipping variety. **Pkt. 20 cts., ½oz. 60 cts., oz. $1, ¼lb. $3.25, lb.$10.**

ESSEX WONDER. See page 17.

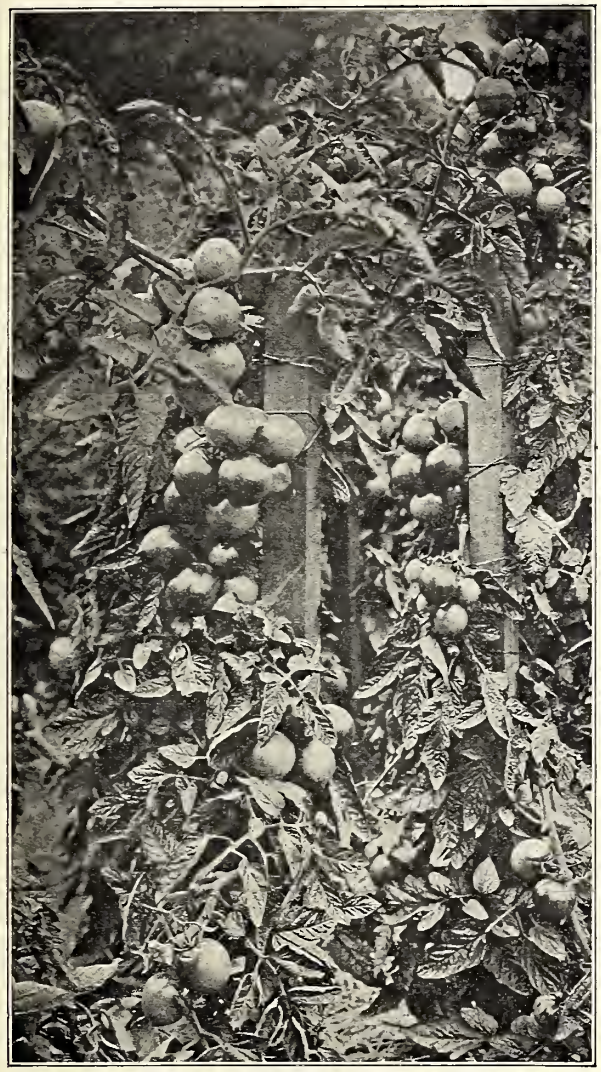
A NEW TOMATO

Resists Wilt and Rust

Marglobe. This is a large Tomato of the globe type, in color a fine scarlet, and of delicious table quality. It fruits early and continues to yield up to frost. Its remarkable feature is its *strong, robust constitution;* it resists wilt and is immune to rust, and will therefore produce healthy fruit during long periods of wet, unfavorable weather. Marglobe is recommended for the large estate and for the home-garden; for the market grower, the shipper of car-lots, and for the canner. Also, it performs splendidly under glass, forcing well. **Pkt. 25 cts., ½oz. 65 cts., oz. $1.25, ¼lb. $3.50, lb. $12.**



Crimson Cushion, or Beefsteak Tomato



John Baer Tomato. The plants have been trained to a single stem

A Remarkable Tomato

John Baer. An early, bright red Tomato of wonderful quality. But little later than Earliana, it far surpasses that variety in size and quality; it is, further, one of the heaviest-yielding sorts we know. The flesh is solid, possessing a fine flavor, free from acid. The fruits contain remarkably few seeds, and in this connection it is interesting to note that for seed purposes we find it requires over seven bushels of hand-selected, perfect fruits to produce one pound of seed. The limited quantity which we have to offer is of a private stock and has been grown under our personal supervision. **Pkt. 20 cts., ½oz. 60 cts., oz. $1, ¼lb. $3, lb. $10.**

The Best Yellow Tomato

Golden Ponderosa. The best large golden yellow Tomato. Smooth in appearance, of excellent quality, enormous size and ripens early. In shape very much like the Scarlet Ponderosa, but of a bright yellow color. Golden Ponderosa, served sliced and accompanied by a high-class scarlet variety, similarly sliced, presents an appetizing combination difficult to resist. **Pkt. 15 cts., ½oz. 60 cts., oz. $1, ¼lb. $3, lb. $10.**

Two Dwarf Tomatoes

Dwarf Champion. Distinct potato-like foliage and a sturdy, stocky plant; fruits medium size and purplish pink in color. Pkt. 15 cts., ½oz. 40 cts., oz. 65 cts., ¼lb. $1.75, lb. $5.

Dwarf Stone. The fruits, produced in clusters of three to five, average 4 inches in diameter and 2½ inches in depth. Pkt. 15 cts., ½oz. 40 cts., oz. 65 cts., ¼lb. $1.75, lb. $5.

Small-Fruiting Tomatoes

The fruits of these are much used for making fancy pickles, preserves, etc., while their size, shape, color, and flavor make them desirable additions to salads. The plants are extremely productive.

King Humbert. In shape and size, King Humbert is suggestive of a hen's egg. The fruits are bright scarlet in color and are frequently produced in enormous clusters. Pkt. 15 cts., ½oz. 45 cts., oz. 75 cts., ¼lb. $2.75.

Yellow Cherry
Red Cherry
Red Currant
Peach
Red Pear
Yellow Pear
Red Plum
Yellow Plum

Above eight varieties: **Pkt. 10 cts., ½oz. 35 cts., oz. 60 cts., ¼lb. $1.75**

Strawberry or **Husk Tomato.** The plants are of dwarf, spready growth and very productive. The fruit is yellow, about the size of a good-sized strawberry and is enclosed in a husk. Pkt. 10 cts., ½oz. 35 cts., oz. 60 cts., ¼lb. $1.75.

Forcing Tomatoes

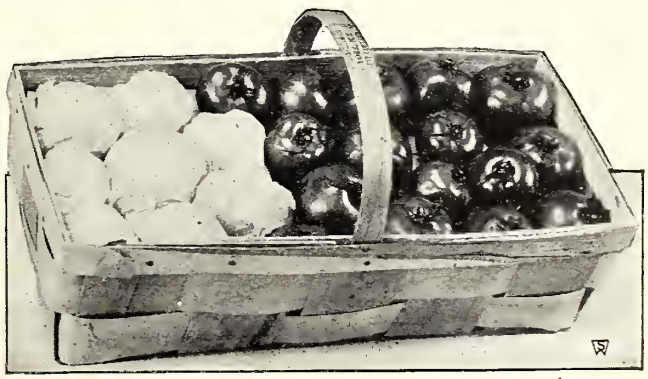
Varieties recommended for cultivation under glass, yielding during winter and spring.

S. & W. Co.'s Best of All. A variety of matchless form and color. Fruits beautiful, smooth, round and wonderfully prolific, setting very freely in bunches. Color rich scarlet-red. Equally good for outdoor culture as for forcing. **Pkt. 20 cts., ¼oz. 50 cts., oz. $1.50.**

Comet. Grown very largely by both private and market-gardeners. It is very short-jointed, fruiting close up to the stem. The Tomatoes are of medium size; deep scarlet. **Pkt. 15 cts., ¼oz. 30 cts., oz. $1.**

Stirling Castle. A very superior variety for either forcing or outdoor culture. Very heavy cropper, of medium size, smooth and round. Color a clear red. Remarkable for its free setting qualities and delicious flavor. **Pkt. 15 cts., ¼oz. 30 cts., oz. $1.**

Sunrise. A fruit of fine quality, medium in size, perfectly round, and produced in characteristic long clusters. It is considered by many growers to be the best indoor Tomato grown, and the best outdoor variety where a small "whole-salad" type of fruit finds favor. Sunrise has won many awards and prizes. **Pkt. 20 cts., ¼oz. 40 cts., oz. $1.25.**



Greenhouse-grown Tomatoes as shipped during the winter months into the New York market

Uniform containers holding 10 pounds are used, and the individual fruits are wrapped in tissue paper. A suitable Tomato weighs 4 ounces, and in shape is a deep globe, the color bright scarlet. Best of All, Comet, and Stirling Castle are varieties largely used under glass.

Vegetable Roots and Plants

Artichoke Roots, Jerusalem. Used for feeding stock and pickling. Tubers resemble potatoes. Qt. 35 cts., pk. $2.

Asparagus Roots. For full description, culture and prices, see page 18

Chives. Used for flavoring. We supply large, growing clumps, 25 cts. each, $2.50 per doz.

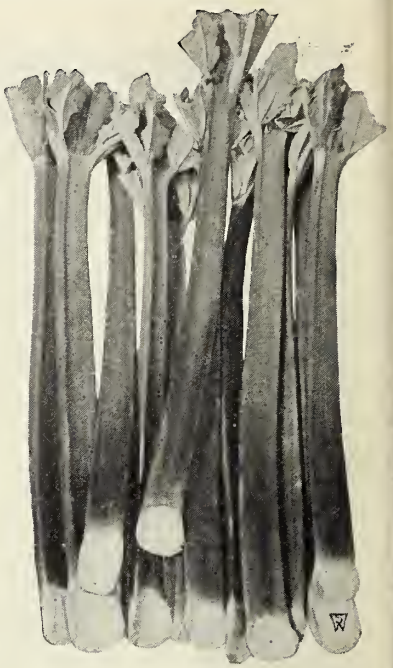
Horse-Radish Roots. Will produce good Horse-Radish, fit for use in one season's growth. Plant the root so that the top will be 2 inches under the ground. 25 cts. per doz., $1.50 per 100.

Mint Plants. Selected pot-plants. Used for Mint sauce and juleps. 25 cts. each, $2.50 per doz.

Rhubarb Roots. The roots we offer are of the Giant Crimson Victoria variety. They may be planted in any good garden soil in the early spring. Divided roots, 15 cts. each, $1.50 per doz., $10 per 100; extra-strong clumps, 25 cts. each, $2.50 per doz., $20 per 100.

Sweet Potato Plants. Red or Yellow variety. Ready in June. 75 cts. per 100, $5 per 1,000.

Tarragon Plants. Used for seasoning. Strong pot-plants, 35 cts. each, $3.50 per doz.



Rhubarb

Vegetable Roots for Winter Forcing

Send for circular giving descriptions and cultural treatment

Asparagus. Extra-large clumps of Pedigreed Washington. $1.50 per doz., $10 per 100, $90 per 1 000.

Rhubarb Roots. Extra-large clumps of Giant Crimson Victoria. Excellent for forcing in the cellar or greenhouse during the winter months. 50 cts. each, $5 per doz., $35 per 100.

Seakale Roots. Selected roots for forcing. $1.75 per doz., $12 per 100.

Witloof Chicory Roots. Extra-selected roots for forcing. 75 cts. per doz., $5 per 100, $40 per 1,000.

Aromatic, Medicinal and Pot Herbs

	Pkt.	Oz.
Anise (*Pimpinella Anisum*). Seeds aromatic and carminative	$0 10	$0 30
Arnica (*Arnica montana*). Valuable medicinal qualities	20	
Balm (*Melissa officinalis*). For culinary purposes	15	
Basil (*Ocymum basilicum*). Sweet. Culinary herb used for flavoring soups, etc.	$0 10	$0 25
Bene (*Sesamum orientale*). The leaves used for dysentery	15	40
Borage (*Borago officinalis*). Leaves used as a salad....¼lb. $1.50, lb. $5...	15	40
Burnet (*Poterium Sanguisorba*). Used in the manufacture of cooling drinks..	10	25
Caraway (*Carum Carvi*). Used in flavoring liquids and bread...¼lb. 65c...	10	20
Catnip (*Nepeta cataria*). Has medicinal qualities	15	40
Chamomile (*Anthemis nobilis*). Has both tonic and febrifugal properties.	15	
Chives (*Allium Schœnoprasum*). Used as a substitute for onions in soups and salads. (Clumps offered above.)	20	1 00
Coriander (*Coriandrum sativum*). Seeds aromatic.....¼lb. 35c., lb. $1..		15
Cumin (*Cuminum Cyminum*). Known also as Fennel Flower. Seeds are used as an ingredient in curry powder, pickles, soups, and pastry	10	25
Dill (*Antheum graveolens*). Seed used for flavoring vinegar.....¼lb. 65c...	10	20
Fennel (*Sicilian*). True variety; rounded thickened leaf-bases..¼lb. 80c...	10	25
Horehound (*Marrubium vulgare*). Has medicinal qualities	15	40
Hyssop (*Hyssopus officinalis*). Has medicinal qualities	15	40
Lavender (*Lavandula vera*). True. For oil and distilled water	15	75
Marjoram (*Origanum Majorana*). Sweet. Used in seasoning	15	50
Rosemary (*Rosmarinus officinalis*). Yields an aromatic oil and water	15	50
Rue (*Ruta graveolens*). Said to have medicinal qualities	15	50
Saffron (*Carthamus tinctorius*). Used for medicine and also in dyeing	15	40
Sage (*Salvia officinalis*). Common. A culinary herb; also used in medicine..	15	50
Savory (*Satureia hortensis*). Summer. Used as a culinary herb	15	40
Savory (*Satureia montana*). Winter. Employed in the kitchen for seasoning.	15	50
Thyme (*Thymus vulgaris*). English Broad-leaved Winter. Employed for seasoning; the oil is sometimes used in perfumery	15	75
Thyme (*Thymus vulgaris*). French. A small-leaved, less hardy type than the above. Used for the same purposes	15	50
Woodruff (*Asperula odorata*)	25	
Wormwood (*Artemisia absinthium*). Has medicinal qualities	15	40



Sicilian Fennel or Finocchio



Mint | Lavender | Summer Savory | Rosemary | Thyme | Sage | Chamomile | Arnica | Dill | Sweet Marjoram

S.&W. CO.'S SELECTED STRAINS OF FIELD CORN

The various Field Corns offered on this page have had our personal inspection in their production. They are grown especially for us in territory that is **free of European Corn Borer;** our customers may therefore plant our seed with the fullest confidence. **Prices are subject to change without notice.** *For better crops treat seed with Semesan, Jr.*



A field of S. & W. Co.'s New Golden Eureka Yellow Dent Corn (Improved Leaming) showing vigorous growth

New Golden Eureka Dent (IMPROVED LEAMING)

We offer a specially select stock of this fine Corn, which has been meeting with great favor. It is a tremendous yielder. We have had reports of yields of over 150 bushels of shelled Corn to the acre. The plants grow from 12 to 15 feet high, a great proportion of them bearing two ears to the stalk, the ears averaging 12 to 15 inches long, with 18 to 22 rows of deep rich yellow grains and small cob. Seventy pounds of ears frequently yield 60 pounds of shelled Corn. While not so quick to mature as a Flint Corn, where 100 days of "Corn weather" are assured, it is the best Corn to grow. A very fine variety for ensilage, and frequently produces 25 tons of good Corn silage per acre. **Qt. 25 cts., postpaid, 40 cts.; pk. $1.50, bus. $5, 10-bus. lots, $4.50 per bus.**

For better crops treat seed with Semesan, Jr.

Early Smoky Dent

The earliest Dent Corn in cultivation. Many growers claim that it has every variety of Corn surpassed for early maturity, large size of ears and splendid quality; ears are 8 to 10 inches long and have 12 to 16 rows of kernels on the cob. Stalks average, on good ground, 8 feet or more, and it matures generally in about 90 days from date of planting. It is thus a splendid dual-purpose Corn, valuable both for crib and silo purposes. **Qt. 25 cts., postpaid, 40 cts.; pk. $1.50, bus. $5, 10-bus. lots, $4.50 per bus.**

Jumbo Silage

A first-class ensilage variety. Grows 12 to 15 feet high, with mammoth stems in proportion, and an enormous growth of leaves. Under favorable conditions it will produce ears a foot or more long, yielding two of them to a plant. Jumbo Silage Corn is recommended for rich, low lands, where it yields heavy fodder. **Qt. 30 cts., postpaid, 45 cts.; pk. $1.50, bus. $5.25, 10-bus. lots, $4.75 per bus.**

Luce's Favorite

The favorite for Long Island, eastern New York, and northern New Jersey. A Dent Corn which is as early as the Flint varieties, yet one that yields two to three ears per plant. The ears are crowded with 8 to 12 rows of broad dented golden kernels. The plant is a strong grower, and the leaves are broad and long, making it an excellent sort for fodder and the silo. **Qt. 30 cts., postpaid, 45 cts.; pk. $1.50, bus. $5.25, 10 bus. lots, $4.75 per bus.**

Improved Early Horsetooth. Same as Southern Horsetooth, but better selected and earlier. Small stalks; much foliage, but rarely produces ears in northern U. S. Qt. 25 cts., postpaid, 40 cts.; pk. $1.35, bus. $4, 10-bus. lots, $3.50 per bus.

Evergreen Fodder. A variety of the Sweet Corn especially valuable as green fodder. Sow broadcast, 2 bushels to the acre; in drills 3 feet apart, one bushel per acre. Qt. 35 cts., postpaid, 50 cts.; pk. $1.75, bus. $6, 10-bus. lots, $5.50 per bus.

Longfellow Flint

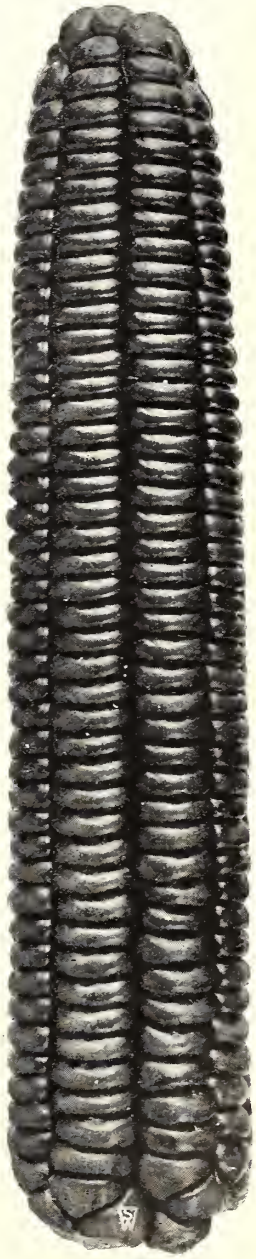
This beautiful eight-rowed Flint often yields two good ears to the stalk. Ears sometimes 15 inches long. Cobs small, kernels of good size. Safe for planting as far north as Massachusetts. Our stock of seed is of the best selection and has given a yield, this past season, of over 100 bushels to the acre. **Selected stock, qt. 25 cts., postpaid, 40 cts.; pk. $1.50, bus. $5, 10-bus. lots, $4.50 per bus.**

Pop-Corn

Treatment is similar to that of field or sweet corn. Care given in curing determines the popping qualities: place the ears under cover in thin layers with free access to the air. Sow 5 pounds per acre, in hills.

White Rice. Rough kernel. Recommended as the best general-purpose variety on account of its keeping better than others. Lb. 25 cts., postpaid, 35 cts.; 10 lbs. $1.75, 100 lbs. $14.

White Pearl. The kernels of this variety are small and smooth. Lb. 25 cts., postpaid, 35 cts.; 10 lbs. $1.75, 100 lbs. $14.



Longfellow Flint Corn

ROOT CROPS FOR STOCK-FEEDING

We recommend strongly to the cattle breeder, dairy farmer, and poultry raiser, Mangels, Carrots and Rutabagas. A palatable, easily stored, easily digested, and nutritious food is yielded in large quantities per acre. They stimulate the flow of milk of high grade; their cultivation ensures the thorough cleaning of the land; and they may be stored into the winter in root-cellars or outdoor "pits" with but little trouble.



Pedigreed Ideal. Forty years' breeding has increased the dry matter and sugar in this Mangel by 50 per cent.

MANGEL-WURZEL

CULTURE.—Sow in drills during May or June, about 2 feet apart; thin out to 9 to 12 inches in the rows. The long varieties are best suited to a deep soil, and the globe sorts succeed better than the long sorts on shallow land. 6 to 8 pounds are required for one acre.

Pedigreed Ideal. The food value of a Mangel depends upon the quantity of sugar and dry matter contained in its flesh. Forty years of patient breeding has so increased the sugar and dry matter in **Pedigreed Ideal Mangel** that it contains 50 per cent more than ordinary roots; in other words, one ton of **Pedigreed Ideal** is equal as food to one and a half tons of non-pedigree Mangels. It is formed like a cylinder, grows high out of the ground, and has but a single tap-root. It may thus be lifted at harvest-time with little effort, and it is suitable for growing in shallow soils. The root has a yellow skin, covering flesh which is white, crisp, and with a flavor that is exactly what stock desire: it is high in vitamines and its use promotes an increased flow of untainted milk. We offer seed produced in Europe by the originator. **Oz. 20c., ¼lb. 55c., lb. $1.50, 10 lbs. $12.50.**

Mammoth Long Red. This is the giant among Mangels, and the variety most frequently grown. The roots are of enormous size, very uniform in shape, smooth and clean, with but small top growth. The skin is bright, rich red, and under favorable growing conditions the roots may reach a length of 3 feet. Ordinary strains of long Mangels grow so deeply into the ground and their roots branch to such an extent that their harvesting is a problem, but our Mammoth Long Red grows from one half to two-thirds out of the ground, hence the roots may be pulled with moderate effort. The maximum tonnage per acre is produced by this variety. **Oz. 15 cts., ¼lb. 30 cts., lb. 85 cts., 10 lbs. $8.**

Champion Yellow Globe. Occupies the same position among Mangels as the Jersey cow does among cattle in that the roots are of only moderate size but of high quality. The skin is a rich, deep yellow; the flesh is fine, white, and solid, highly nutritious and palatable to stock. Not only does its shape lend itself to easy lifting, but two-thirds of the root grows above ground, hence it is a good variety where the soil is shallow. Its feeding value is high and it is a good keeper. **¼lb. 40 cts., lb. $1, 10 lbs. $9.**

BARRE'S SLUDSTRUP. Has been recommended as holding the record for dry-matter content. This Mangel has been awarded a First-Class Certificate several times by the Danish government, the highest honor in Denmark, where Mangels are as important as corn is here. Sludstrup is a long, reddish yellow, ovoid root, growing more than half above the ground. Easily harvested and is considered to excel most varieties in both weight and feeding value. ¼lb. 30 cts., lb. 85 cts., 10 lbs. $8.

GOLDEN TANKARD. Smooth, yellow flesh; small, yellow-stemmed top; length 15 inches, diameter 5 inches, shape cylindrical. Usually grows half out of the ground. Easily pulled, good yielder; very hardy and nutritious. ¼lb. 40 cts., lb. $1, 10 lbs. $9.

MAMMOTH LONG GOLDEN. The root is long and cylindrical, tapering gradually at each end. The skin is golden yellow, with a greenish shade above ground; flesh is white, sweet, and firm. A deep soil in which analysis shows the presence of a fair proportion of lime suits this variety. In spite of the large size of the root, its shape and the fact that a large proportion of it grows out of the ground enables it to be lifted without difficulty. ¼lb. 40 cts., lb. $1, 10 lbs. $9.

HALF-SUGAR ROSE. A variety combining the best qualities of sugar beets and Mangels. They are about the same shape as Long Red, but have white skin at the bottom, rose at top. Easier to harvest than sugar beets. ¼lb. 30 cts., lb. 85 cts., 10 lbs. $8.



Champion Yellow Globe. A refined type, of convenient shape and high nutritive value.

SUGAR BEET

Klein Wanzleben. This variety is cultivated on a larger scale than any other Sugar Beet. Root is conical, straight and even, large at top and rapidly tapering. Contains a heavy percentage of saccharine matter. **Oz. 15 cts., ¼lb. 30 cts., lb. 85 cts., 10 lbs. $8.**



Mammoth Long Red. The Giant among Mangels

A USEFUL BOOK FOR THE FARMER

Fertilizers and Crops. By Lucius L. Van Slyke, Chemist of the New York Agricultural Experiment Station. 734 pages, illustrated. A veritable mine of information on this subject. Clear; interesting; authoritative. Postpaid. $3.50.



Long Orange Carrot

ROOT CROPS FOR STOCK-FEEDING

Stock Carrots

Carrots are very valuable for all kinds of domestic animals, and are better for horses than any other root-crop. When fed alternately with oats to work-teams on the farm, the value of Carrots has been found to equal the oats they displace. Succulent food, in part, will always prove beneficial. Sow 4 pounds to the acre, from the middle of May to July 1 for main crop. Allow 1 foot apart between rows, and thin out to 7 inches in the rows.

Danvers Half-Long. Deep orange color, half-long, tapering uniformly to a blunt point. Flesh solid, and although of medium length, this strain will give a large yield to the acre. **¼lb. 45 cts., lb. $1.25, 10 lbs. $11.**

Long Orange. A very desirable type for field culture where the soil is thoroughly and deeply tilled. A foot or more is the usual length, with a diameter of 3 inches at the top. Its economy is apparent. **¼lb. 45 cts., lb. $1.25, 10 lbs. $11.**

Mammoth White Belgian. We offer the best stock we know of this popular type. The root is about 16 inches long, a quarter of which is above ground. The skin is white below and is greenish where it grows above ground. Its narrow shape enables it to be grown closely together in rows with profit, and its yield is therefore enormous. Excellent as a winter ration for horses and cattle. ¼lb. 35 cts., lb. $1, 10 lbs. $9.



Danvers Half-Long Carrot will give a large yield to the acre

RUTABAGA (Russian or Swedish Turnip)

Sow 4 pounds to the acre, in June, in drills 2 feet apart.

Improved American Purple-Top. A particularly fine type of Rutabaga with reddish purple top. It is almost spherical in shape, and in consequence is easily lifted. The yellow flesh shows on analysis a very high percentage of dry matter; in other words, its feeding value is remarkably good. In our opinion our strain of Improved American Purple-Top is the best type of Rutabaga on the market today. We recommend it for stock-feeding rather than for table use. **¼lb. 40 cts., lb. $1, 10 lbs. $9.50.**

S. & W. Co.'s Long Island Improved. This special strain of Rutabaga is grown on Long Island by a very careful grower. It is of a remarkably uniform shape and fine quality, and is also a splendid keeper. It grows to a large size, the skin is smooth, and flesh is beautiful yellow and fine-grained. We recommend it both for table use and for stock. **Pkt. 10 cts., oz. 20 cts., ¼lb. 55 cts., lb. $1.50, 10 lbs. $12.50.**



Improved American Purple-Top Rutabaga. A particularly fine type

EXPERIMENT WITH FIELD-ROOTS

We do not suggest that Roots be grown *instead of* corn, but we urge that they be grown *in conjunction with* corn; and for those of our customers who have only grown Roots in small quantities we offer an opportunity to try them out on their land. We have prepared:

Acre Collection of Field-Roots

Containing ½ lb. each of our leading varieties, as follows:

Mangel, Mammoth Long Red.
" Pedigreed Ideal.
" Champion Yellow Globe.
" Mammoth Long Golden.
" Golden Tankard.
" Half Sugar Rose.
Sugar Beet, Klein Wanzleben.
Carrot, Danvers Half-Long.
Carrot, White Belgian.
Rutabaga, Improved American Purple-Top.

Collection, mailed anywhere in the United States or Canada for $5

The total, amounting to 5 lbs., is the recommended total allowance of seed per acre. We invite orders for one or more of this Acre Collection

Prices subject to change

SEED OATS

For grain, 2½ bushels to the acre; for forage, 3 bushels, or with Canada Peas, 1 to 1½ bushels

Sold at the standard weight of 32 pounds to the bushel. Several varieties of Oats offered below weigh up to 40 pounds to the measured bushel, but all Oats are purchased and sold at the standard weight of 32 pounds to the bushel.

Storm King. An exceptionally fine grade of the Long's Tartar. Kernels are large and plump. The straw is long and stout, and does not easily lodge. Heads are from 8 to 10½ inches in length. Our grower in New Jersey reported a yield of over 100 bushels per acre. Suitable for all soils. **Pk. 85 cts., bus. (32 lbs.) $2.50; 10 bus. $22.50, 100 bus., $2 per bus.**

Welcome Oats. One of the heaviest, handsomest, and most productive white varieties grown. It stools heavily, with extra-strong, straight straw, standing well. Succeeds well in a wide range of climate, and under a great variety of soils and methods of culture. **Pk. 65 cts., bus. (32 lbs.) $1.90; 10 bus. $18, 100 bus., $1.65 per bus.**

White Tartar. This is a western Oat which, when grown in the East in past years, has done remarkably well. Its yield was well in excess of the Swedish and Lincoln varieties. It is a heavy Oat, with long, stout straw, which stands up well without lodging. The heads are large; the grains are thick and very heavy, with a thin hull. Our seed is selected and grown especially for us. **Pk. 85 cts., bus. (32 lbs.) $2.50; 10 bus. $22.50, 100 bus., $2 per bus.**

White Cross (Wisconsin Pedigree No. 19). A new Oat; extra-early, heavy yielder, with a large kernel and white instead of yellow. First premium at Wisconsin State Fair, and headed the list of all varieties in yield per acre at the Wisconsin Experiment Station. **Pk. 65 cts., bus. (32 lbs.) $1.90; 10 bus. $18, 100 bus. $1.65 per bus.**



SEED PRESERVER insures your seeds. It prevents crows and other birds taking the seed; it protects against ground-rot and smut. It is non-poisonous and does not retard germination.

Large can, enough for 2 bushels of seed corn..... $1 50
Small can, enough for 1 bushel..... 1 00



Field of Storm King Oats

SPRING WHEAT

Marquis. The favorite sort in this locality, used on account of its prolific, vigorous growth and early qualities. Sow in April or May, 1½ to 2 bushels per acre broadcast or in drills. Qt. 30c., pk. $1.50, bus. $4.50; 5 bus. and over, $4.25 per bus.

SPRING RYE

Used as a catch-crop to sow where winter grain failed. **Qt. 25c., pk. $1.25, bus. $3.75, 10 bus. and over, $3.50 per bus.**

BEARDLESS SPRING BARLEY

Its straw is good for green feed or, when cured, as hay. The grain in the hull is excellent poultry-feed and with the hull removed is used in the household. It is a quick-growing crop and very nutritious. Sow broadcast 1½ to 2 bushels to the acre from May 15 to July 1. Our seed stock is carefully selected and grown especially for us in Genesee County, New York. Makes better straw than the bearded, and will yield 50 bushels of grain to the acre. **Qt. 20 cts., postpaid, 36 cts.; pk. $1, bus. $3.25, 10 bus., $3 per bus.**

SORGHUMS

EARLY AMBER SUGAR CANE. Sow 50 pounds per acre. Most valuable for dairy farmers; a favorite in the Northwest. Lb. 20 cts., postpaid 30 cts.; 10 lbs. $1.10, 100 lbs. $10.

SUDAN GRASS. A quick-growing hay and pasture crop. Sow 30 pounds per acre. Lb. 20c., postpaid, 30c.; 10 lbs. $1.25, 100 lbs. $10.

JOHNSON GRASS. Sow 25 pounds per acre. Lb. 35 cts., postpaid, 45 cts.; 10 lbs. $3, 100 lbs. $25.

FETERITA. Sow 20 pounds per acre. It gives excellent results, particularly in dry seasons. Lb. 15 cts., postpaid, 25 cts.; 10 lbs. $1.25, 100 lbs. $10.

BROOM CORN. Sow 20 pounds per acre. Lb. 40 cts., postpaid, 50 cts.; 10 lbs. $3, 100 lbs. $25.

KAFFIR CORN

A substitute for corn in semi-arid regions. The grain is used for poultry, for feeding horses and fattening hogs and cattle, while, if the plants are cut for hay, a great deal of forage is obtainable. Kaffir Corn is not suitable for pasture. Culture is similar to field corn; use 15 pounds of seed per acre if grown in rows and 50 pounds if broadcast. **Lb. 10 cts., postpaid, 20c.; 10 lbs. 85 cts., 100 lbs. $8.**

MILO MAIZE

Used for soiling and fodder. Seed 15 pounds per acre. **Lb. 15 cts., postpaid 25c.; 10 lbs. $1.15, 100 lbs. $9.**

MILLETS

These are recommended as catch-crops, that is, quick-growing varieties to take the place of corn, wheat, or other crops which may have failed. They are chiefly grown for feeding green, silage or hay; seed may be sown during May, June, and July.

Golden Millet. Grows 4 to 5 feet high and yields a heavy crop. Use 50 pounds of seed per acre. Lb. 20 cts., postpaid, 30 cts.; 10 lbs. $1.10, 100 lbs. $9.

Hungarian Millet. The crop is heavy, and is considered equal in value to timothy hay. Use 50 pounds of seed per acre. Lb. 20 cts., postpaid, 30 cts.; 10 lbs. $1.10, 100 lbs. $9.

Japanese, or **Barnyard Millet.** Yields more heavily than almost any other forage plant. Grows 8 feet high. Use 15 pounds of seed per acre. Lb. 20 cts., postpaid, 30 cts.; 10 lbs. $1.25, 100 lbs. $10.

PRICES ON GRASS AND CLOVER SEEDS ARE SUBJECT TO CHANGE

INOCULATE THIS SEED WITH FARMOGERM

CLOVERS

Of Known Purity and Proved Vitality

INOCULATE THIS SEED WITH FARMOGERM

All Clovers possess the property of transforming the free nitrogen of the air into soluble nitrates; in addition to the crop yielded, they *all result in an improved condition of the soil.*

Algot Red Clover. An improved strain produced by a Swedish botanist, after much painstaking effort. Algot Red Clover yields a heavier crop to the measured acre than the ordinary type. It will endure a greater degree of cold without injury and it is resistant to mildew. Most of all, it will thrive on land which would be "clover-sick" to common red clover. This is a distinct type, very uniform and flowering late. **Lb. $1.25, 10 lbs. $11.50, 100 lbs. $100.**

Medium Red Clover. This is the most popular and is regarded as the most valuable of the Clover family. It makes two crops each year. The first is usually cut when it is in blossom for hay; the last crop may be harvested for seed, cut for hay or plowed under to add fertility to the soil. It may be sown either in the spring or fall, and if no other grasses are used, at the rate of from twenty to twenty-five pounds to the acre. **Hardy American-grown Seed. Lb. 65 cts., postpaid, 75 cts.; 10 lbs. $5.50, 100 lbs. $45.**

Mammoth Red Clover. Grows larger and lasts longer than the preceding variety, and by some is considered superior to it for forage. **American-grown Seed. Lb. 70c., ppd., 80c.; 10 lbs. $6, 100 lbs. $50.**

Alsike or Swedish Clover. This is one of the hardiest varieties known; it will do better on moist land than any other variety of Clover. It is frequently sown both with Medium Red Clover and with Timothy, and the quality of hay thus produced is excellent. It is finer and more leafy than Medium Clover, although it does not grow so high. **Lb. 60 cts., postpaid, 70 cts.; 10 lbs. $5, 100 lbs. $40.**

White or Dutch Clover. This variety should be included in mixtures of seed for pasture and it is the best sort for lawns; it forms a close herbage and remains green throughout the season. **Lb. 75 cts., postpaid, 85 cts.; 10 lbs. $7, 100 lbs. $55.**

Wild White Clover. Genuine Wild White Clover Seed produces wiry plants that are *more permanent in character* than those originating from commercial seed: the plants are smaller and they spread very much farther than the "cultivated" type Being more robust, they withstand clover-sickness and they thrive on soils that would be too poor to support ordinary White Clover. Wild White Clover plants *assist other Clovers and grasses growing alongside them*, and European experience shows that the inclusion of so small a quantity as *one pound of seed per acre* in mixture with other Clovers and grasses for hay-fields and pastures is followed by an increase in yield amounting in some cases to 50 per cent or more. On breaking up a pasture in which it is included, the increased benefit to the soil is very marked. **Oz. $1, ¼lb. $3, lb. $10.**

Alfalfa or Lucerne. Alfalfa possesses a wonderful root system, deep and strong, consequently it is a great drought-resister. Our seed is American-grown, produced in those northern sections of the country where Alfalfa has endured the extreme cold of winter in high altitudes. **Lb. 45 cts., ppd., 55 cts.; 10 lbs. $4, 100 lbs. $32.50**

Grimm Alfalfa. There is some disagreement as to how Grimm Alfalfa obtained its hardiness, but there is no difference of opinion that it is hardy. Because of its root-system, it will grow well over a hardpan soil, and is adapted to a wetter soil than the common Alfalfa. We recommend 15 pounds of the seed, sown broadcast, to the acre, as its stooling habit requires less seed to be sown than the ordinary type. **Lb. 80 cts., postpaid, 90 cts.; 10 lbs. $7.50, 100 lbs. $65.**

Crimson or Scarlet Clover. This is an annual plant. It can be seeded at any time from June to October, at the rate of fifteen to twenty pounds to the acre, and makes the earliest possible spring pasture, blooming the latter part of April or May, and for feeding as hay, should be cut just before coming into full bloom. **Lb. 35 cts., postpaid, 45 cts.; 10 lbs. $3, 100 lbs. $25.**

Sweet Clover, or Bokhara Clover. White Melilotus. Farmers are sowing this Clover to quite a considerable extent on light, sandy land, where other Clovers do not take well. They hope, by sowing Sweet Clover, to get a good growth to turn under to improve the land and also to inoculate the soil so that it will produce good crops of Crimson Clover and Alfalfa from seedlings of these to follow the Bokhara. For feed or forage it should be cut when quite young, for when it gets old, cattle do not relish it, and it is not of very high nutritive value. It is also largely used for sowing for bees. **Lb. 30c., postpaid, 40c.; 10 lbs. $2.50, 100 lbs. $20.**

Yellow Sweet Clover. A yellow-flowered counterpart of the above. **Lb. 35 cts., postpaid, 45 cts.; 10 lbs. $2.75, 100 lbs. $22.50.**

Hubam. Annual White Sweet Clover. Hubam is a variety of Bokhara or White Sweet Clover which was discovered a few years ago by the Iowa Experiment Station; it has since been improved. While ordinary Sweet Clover, and most other Clovers, do not give a profitable return until the second year from seeding, Hubam will produce a bumper crop and *attain mature growth in the first season.* It will in six months yield a growth of from 3 to 7 feet, and in some cases 8 and 9 feet, this depending upon the locality, soil, and season. Hubam is even more drought-resistant than the ordinary type, and, like it, is the greatest bee-pasture known. We offer scarified seed. **Lb. 60 cts., postpaid 70 cts; 10 lbs. $5, 100 lbs. $45.**

Sainfoin. A deep-rooting leguminous plant, which thrives on poor dry hillsides and on limestone soils, but gives splendid results also on good land. Usually sown in spring as a one-year crop, although it is perennial in some sections. Sow 50 lbs. per acre, either alone or with a nurse crop. **Lb. 35 cts., postpaid, 45 cts.; 10 lbs. $3.25, 100 lbs. $30.**

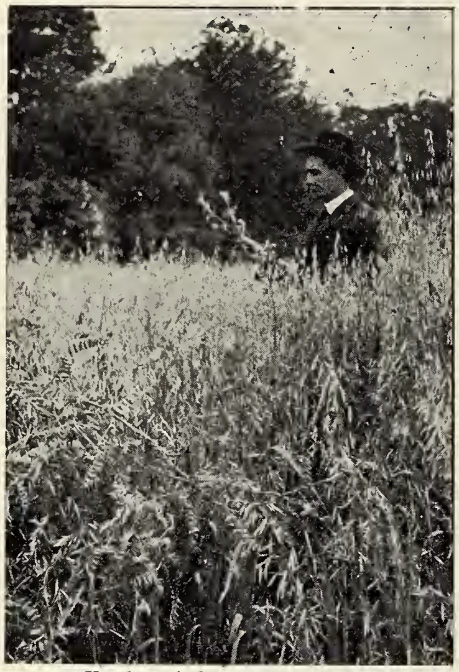
Melilotus indica (Annual Yellow Sour Clover). A legume that is well adapted for a plow-under crop, excellent for building up soils deficient in vegetable matter. Sow 50 lbs. per acre. **Lb. 25 cts., postpaid, 35 cts.; 10 lbs. $2.25, 100 lbs. $15.**

Japan Clover or Lespedeza. A pasture and hay plant much used in the Southern States, where it will give good results even on the poorest soils. Used quite largely for lawn purposes in the territory suited to it. Use 25 pounds of seed per acre. **Lb. 40 cts., postpaid, 50 cts.; 10 lbs. $3.75, 100 lbs. $30.**

Mixed Clovers. For pasture and hay-fields. Use 25 pounds per acre when sowing new land, but for renovating existing fields, use 10 pounds. **Lb. 55 cts., postpaid, 65 cts.; 10 lbs. $5, 100 lbs. $45.**



Red Clover



Vetch and Oats Sown Together

PRICES SUBJECT TO CHANGE

INOCULATE THIS SEED WITH FARMOGERM

VETCHES or TARES

Vetches are relished by live stock of all kinds; they are excellent for milk-production, and their fattening properties are of high order. You may feed them green, as hay or as silage. Being legumes, they are the finest possible land-renovators, and they are strongly recommended as a plow-under crop to manure the land. The Department of Agriculture estimates the value of an acre of Vetch plowed-under as being equal to commercial fertilizer at the rate of from $16 to $40 an acre. For best results, grow Vetches in combination with oats, wheat, or rye. The cereals support the Vetches, keeping them away from the ground, and much increasing the crop.

SPRING VETCHES (*Vicia sativa*). These are highly valuable for soiling or for green-manuring. They should be sown as early as the land is dry enough to be worked without injury. When sown alone, use 150 pounds per acre broadcast, or 100 pounds in drills. If grown with oats, wheat, or rye, use ½bushel of the cereal and 75 lbs. of Spring Vetches. Lb. 20c., postpaid, 30c.; 10 lbs. $1.25, 100 lbs. $10.

WINTER VETCHES—SAND or HAIRY VETCHES (*Vicia villosa*). These are suitable for both spring and autumn seeding, and if intended to stand over the winter, they should be sown as long before winter as possible to enable them to become established firmly. If sown alone, use 100 pounds of seed to the acre, but it is best if 50 pounds of Hairy Vetch be sown with ½bushel of oats or other cereals, as shown in illustration at left. Lb. 35c., postpaid, 45c.; 10 lbs. $3, 100 lbs. $25.

FARMOGERM Seed Inoculant

When ordering be sure to state which crops you wish to inoculate. For vetches, field peas, cowpeas, and soy beans: ½-bu. size 35c., 1-bu. 60c., 5-bu. $2.25. For clovers and alfalfa: ¼-bu. size 35c., ½-bu. 60c., 1-bu. $1, 2½-bu. $2.25.

CANADA FIELD PEAS

INOCULATE THIS SEED WITH FARMOGERM

Canada Field Peas are a profitable crop in a variety of ways; if grown to maturity and threshed, a yield of from 30 to 60 bushels per acre of dried Peas may be expected. A combined crop of Peas and Oats is frequently grown; at maturity they may be threshed at one time and separated in cleaning. They are most widely grown in conjunction with oats and fed green, when a surprising amount of fodder is produced.

If sown alone, use 3 bushels of seed per acre; when sown with oats, use 1½ bushels of Peas and 2 bushels of oats, sowing the Peas first, plowing under 4 inches deep and then drilling in the oats. **Qt. 30 cts., postpaid, 45 cts.; pk. $1.50, bus. (60 lbs.) $5.25, 10-bus. lots, $5 per bus.**

INOCULATE THIS SEED WITH FARMOGERM

COWPEAS

Used for improvement of soils by plowing under; also make valuable hay, when sown alone or with soy beans, during May, June or July, at the rate of two bushels to acre or one bushel of Soy Beans and one of Cowpeas.

New Era. The Peas are dull lead-colored, not quite so large as Whippoorwill, but vine is somewhat stronger; earlier than other varieties. Qt. 30c., postpaid, 40c.; pk. $1.50, bus. $4.50.

Whippoorwill. An early, bunch-growing Pea; has brown-speckled seed. Qt. 30c., postpaid, 40c.; pk. $1.50, bus. $4.50.

INOCULATE THIS SEED WITH FARMOGERM

SOY BEANS

Especially valuable for mixing with corn for silage, for the production of hay, and for use as pasture, especially for hogs. They are also valuable as a crop for plowing under for green manure.

Planted in rows 2½ feet apart, 6 to 8 plants to the foot of row, requiring three pecks to the acre, they yield fifteen to twenty tons of fodder.

Mammoth Yellow Soy Beans. Qt. 25 cts., postpaid, 35 cts.; pk. $1.35, bus. $4, 10-bus. lots, $3.75 per bus.

Ito San. An early variety. Qt. 35 cts., postpaid, 45 cts.; pk. $1.65, bus. $5.50, 10-bus. lots, $5 per bus.

Wilson (Black). Qt. 30 cts., postpaid, 40 cts.; pk. $1.50, bus. $5, 10-bus. lots, $4.75 per bus.



Soy Beans



A field of Japanese Buckwheat

JAPANESE BUCKWHEAT

This is a superior variety and more prolific, and yields double the weight per acre of other sorts. The grains are nearly twice as large as those of Silver Hull, and of fine color. This variety is always in demand, millers preferring it to all other sorts, and it makes the finest flour. Sow about the middle of June, broadcast, 1 bushel to the acre. **Qt. 20 cts., pk. 90 cts., bus. $3, 10 bus. $2.75 per bus.**

THOUSAND-HEADED KALE

An exceedingly valuable food for sheep and lambs. The crop may be drilled in in rows 2 feet apart, and the plants hoed to stand a foot apart, or occasionally the seeds are sown in a nursery bed and the seedlings transplanted. In the first case 8 pounds of seed per acre are used, and in the second 4 pounds will be found sufficient. **Lb. $1.50.**



Dwarf Essex Rape is an excellent sheep-feed

SUNFLOWER, MAMMOTH RUSSIAN

Selected Seed. Specially Grown for Seeding

Highly valued as an excellent and cheap food for fowls. It is the best egg-producing food known. It can be raised cheaper than corn. Four pounds of seed will plant an acre. **Lb. 35 cts., postpaid, 45 cts.; 10 lbs. $3, 100 lbs. $25.**

SPELTZ or EMMER

One of the types of the wheat family, remarkable for its hardiness. It is occasionally used for stock-food, both as grain or cut green. Its use appears to be on the increase in the northwestern sections of this continent. It is usual to sow 100 pounds per acre. **Lb. 15 cts., postpaid, 25 cts.; 10 lbs. $1.10, 100 lbs. $9.50.**

FLAX or LINSEED

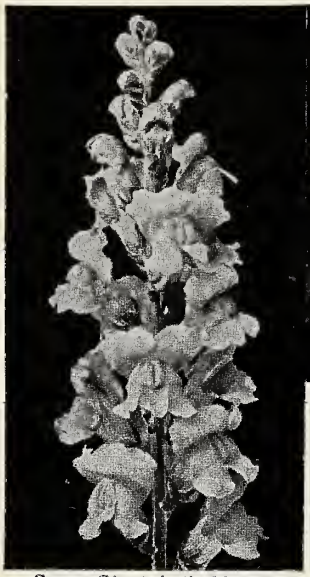
This crop is grown primarily for the seed for which there is a constant demand for pressing for oil and the making of cake and meal. Sow 75 pounds of seed per acre. **Lb. 20 cts., postpaid, 30 cts.; 10 lbs. $1.75, 100 lbs. $14.**

WHITE LUPINS

A legume valued most for green manure, as well as a good fodder plant. Mainly used on dry land; does well on the poorest soil. Use about 150 pounds to an acre. **Lb. 40 cts., postpaid, 50 cts.; 10 lbs. $3.50, 100 lbs. $20.**

DWARF ESSEX RAPE

The true Dwarf Essex Rape is valuable as a fattening food for pasturing sheep in autumn and it is relished also by hogs and cattle. It is particularly adapted as a "catch-crop," for it grows best late in the season. In the northern states it can be sown at any time from May until the end of August, but in the southern states it should not be sown until September or October, for winter pasture. Its fattening properties are said to be twice as good as clover. Sow ten to twelve pounds to the acre broadcast, or four to five pounds per acre in drills 15 inches apart. The plant grows very vigorously, and feeding can commence about two months after the seed is sown. Stock are turned right into the standing crop, and the expense of harvesting is avoided. Successional seedings, to maintain a continuous supply, may well be made. **Lb. 25 cts., 10 lbs. $1.75, 100 lbs. $12.50.**



Super-Giant Antirrhinums



Calendula, The Ball



Calceolaria, Albert Kent



Carnation, Giant Double King

S. & W. Co.'s Novelties and

Super-Giant Snapdragons

Antirrhinum majus maximum

Each year we are greeted with numerous new varieties of this beautiful flower. Specialists vie with one another to produce finer strains. We have given trial to many of the recent introductions and find the following six varieties of excellent merit. The plants attain a height of 3 feet and the individual flowers are very large and the colors very distinct.

Apple Blossom. Apple-blossom-pink.
Canary Bird. Canary-yellow with deeper yellow lip.
Copper King. Bronzy copper color.
Old Gold. Rose on yellow ground.
Snowflake. Dazzling white.
Wallflower. Dark wallflower-red.

Any of the above varieties, pkt. 25 cts., 5 pkts. $1

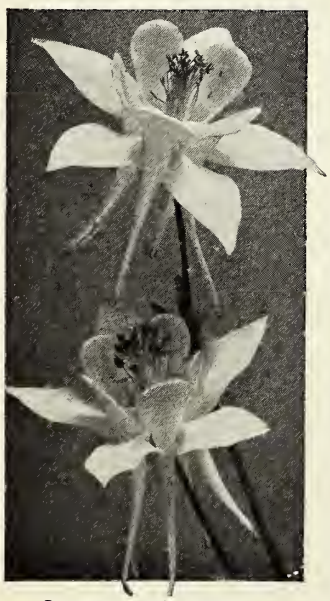


Cardinal Climber

Aquilegia Columbine

S. & W. Co.'s Giant Long-spurred Mixed

The seed of this splendid strain of Columbine is grown for us by a specialist known for his painstaking efforts to produce a superior class. The plants are of strong thrifty growth and are perfectly hardy and bear long-spurred flowers of large size, varying in color through charming tones of cream, pink, lavender, blue, mauve, white, yellow, orange, scarlet, and bright rose-pink. **Pkt. 25 cts., 5 pkts. $1.**



Long-spurred Aquilegia

Calceolaria, Albert Kent

This fine Calceolaria grows about 1½ feet high and bears immense trusses of bloom from the beginning of May onward through the summer. The individual flowers are about 1½ inches across thus intermediate in size between the large-flowered greenhouse varieties and those used for outdoor bedding. They are graceful in shape, like a falling drop of water, and of a bright golden yellow color with a rich maroon-red blotch. A prominent feature of Albert Kent is that it can be utilized both indoors and out. It comes about 75 per cent true from seed. **Pkt. 25 cts., 5 pkts. $1.**

Calendula, The Ball

A special florists' strain of Orange Calendula. The very large, orange-yellow flowers have a lighter center, are borne on long stems, and come uniformly double. This is an exceptionally fine Calendula for greenhouse growing. **Pkt. 25 cts., ¼oz. 75 cts., oz. $2.50.**

Giant Double King Carnations

Many gardeners do not realize how readily these Carnations may be grown. Seed may be sown outdoors when cold weather has gone, or, for earlier bloom, they may be sown in a frame, a greenhouse, or in a sunny window. Plant out the seedlings 6 inches apart, and from midsummer until frost you will have Carnations just as full and sweetly perfumed as those sold by the florist.

White King. Pure white.
Yellow King. Pure yellow.
Maroon King. Maroon.
Red King. Cardinal-red.
Rose King. Rose-pink.
Pink King. Light pink.

Each, pkt. 25 cts., ¼oz. $2
Collection: 1 pkt. ea. of above 6 King Carnations, $1

Cardinal Climber

Ipomœa Quamoclit hybrida

A rapid grower, often attaining the height of 30 feet or more. The deeply laciniated, fern-like foliage and fiery cardinal-red flowers are borne in profusion from July to frost. The flowers are about 1½ inches in diameter and are borne in clusters of five to seven blooms. Seed may be sown indoors during April, or outdoors in May. Soaking seeds in warm water before planting hastens germination. **Pkt. 15 cts., 2 pkts. 25 cts.**

New Double Clarkias

This is a distinct advance in the Clarkias, which has resulted from careful selection of the tall-growing varieties. Plants grow about 2 feet high, which makes them good subjects for pots or open-ground culture. A grand acquisition to the hardy annual section.

Purple King. Rich purple.
Scarlet King. Orange-scarlet.
Brilliant King. Crimson-scarlet.
White King. Pure white.

Each, pkt. 15 cts., 4 pkts., one of each, 50 cts.

Chinese Woolflower

Celosia Childsii

This is a unique form of the feathered Coxcomb, growing 2 to 3 feet high and about the same size in diameter. Each branch is terminated with a large head of rich crimson flowers that look as if made out of some silky wool material. A very effective annual for beds and borders. May be used to excellent advantage as a cut-flower as well.

Crimson. Very rich color.
Pink. Salmony pink.

Each, pkt. 15 cts., 2 pkts. 25 cts.



Double Cornflower



Cheiranthus Allioni



Chinese Woolflower



Gold Medal Delphinium

Specialties in Flower Seeds

Cheiranthus Allioni

Siberian Wallflower

The increasing interest in rock-gardens in America suggests the use of many perennial plants not commonly grown in most gardens. In presenting this beautiful little early-flowering perennial Wallflower with gorgeous orange flowers, we suggest it as a splendid little plant for the rock-garden or as a dwarf border plant. Will bloom throughout the summer if seed-pods are removed. May be sown in the open ground in September where required to flower the following spring, or will bloom first season from seed, if sown in a hotbed in March and transplanted outdoors in May. **Pkt. 25 cts., 5 pkts. $1.**

Cheiranthus Kewensis

Greenhouse Wallflower

A valuable, half-hardy, hybrid Wallflower for growing under glass. The flowers are light yellow on opening and change to mauve when more mature. The plants are freely branched, each stem carrying a long spike of flowers, and grow 2 feet high. **Pkt. 25 cts., 5 pkts. $1.**

Double-flowering Cornflowers

Centaurea cyanus

This notable introduction from our friends in California is a distinct improvement on the former strains of this easily grown annual. The flowers are very double, requiring a much smaller number to make an attractive bunch or as a display for home decoration. They may be sown outdoors in April and successive sowings made up to midsummer. Plants should be thinned out to stand 8 inches apart in order to secure strong plants and larger blooms.

Blue
Rose-Pink
White
Maroon
Mauve
Rosy Red

Any of the above colors, pkt. 10 cts., ¼oz. 30 cts., oz. 75 cts.

COLLECTION: One pkt. each of above 6 colors, 50 cts.

New Double Cosmos

Some years ago, when we first offered in our Novelties and Specialties this splendid new form of Cosmos of Australian origin, we considered it a notable addition to this beautiful family of easily-grown annuals for cutting. We are pleased to announce, however, that, due to painstaking effort on the part of an American grower, this strain has been further improved upon in size of flower, greater degree of doubleness, and general vigor of the plant. Many of the flowers are entirely double, while others have an attractive collar which rather adds, we think, to their beauty.

Double Pink. Beautiful rose-pink.
Double White. Pure glistening white.
Double Crimson. Rich rose-crimson.
Double Mixed. Mixture of all three.

Each, pkt. 20 cts., ¼oz. $1.50

Dahlia, Coltness Hybrids

A splendid new class of single Dahlias. They are of neat, compact habit, averaging only about 18 inches high, and bearing a full and continued succession of bloom from July until frost. The flowers have flat or slightly fluted petals, and vary in size, being mostly about 3 inches in diameter. Their varied colors embrace light and dark scarlet, crimson, blood-red, yellow, white, purple, mauve, and brick-red; bizarre combinations, such as scarlet tipped white, yellow striped white, yellow flushed red, also occur. Excellent as a novel bedding plant. **Pkt. 75 cts., 5 pkts. $3.50.**

Delphinium

S. & W. Co.'s Gold Medal Hybrids

Specialists in America and Europe vie with one another in the improvement of this wonderful and, without a doubt, "the most popular hardy perennial." The varieties of yesterday are mere caricatures compared to the strain we are offering. The plants are of strong and vigorous habit and the spikes frequently attain the height of 6 feet, with flowers of very large size and colors of the finest range—lilac, pale blue, light blue, dark blue, and petunia violet. The individual florets are quite distinct, and diversified in form.

Pkt. 25 cts., ⅛oz. $2

Diascia Barberæ

An old and not so frequently grown annual which we have inserted here in the Specialties in an endeavor to give it a wider acquaintance with flower-lovers. The plants average 9 to 12 inches in height and the dainty spurred flowers are freely produced in sprays on wiry stems. The flowers are ⅞inch in diameter and of a soft salmon-rose. **Pkt. 25 cts., 5 pkts. $1, ⅛oz. $1.50.**

Dianthus, Snowball

This splendid variety of the Dianthus or Pink family is one of the finest of all this genus for cutting. It is classed as a biennial but may be treated as an annual and sown outdoors when all danger of frost is past. It requires a rich soil and an abundance of sunshine. The plants grow about a foot high and are excellent for beds or borders. Large, double, white flowers. **Pkt. 15 cts., ¼oz. 50 cts.**



New Double Clarkia



New Double Cosmos



Dianthus Allwoodi



Didiscus cærulea



Giant Shirley Foxglove

Dianthus Allwoodi

HALF CARNATION—HALF PINK

This new hardy half Carnation and half Pink is looked upon with great favor by British flower-lovers. We offer seed direct from the originator, a noted English specialist in Carnations. The plant combines all the good qualities of the Carnation with the delicious clove scent of the Pink. No plant can be hardier. It is adaptable for gardens, rockeries, window-boxes, and pot culture in cold conservatories, frames, etc. Not the least beautiful is the effect of its delightful glaucous foliage and exquisite range of all colors, except yellow. The seedlings produce about 75 per cent of double flowers. **Pkt. 25 cts., 5 pkts. $1, 250 seeds $2.50.**

Didiscus cærulea

Queen Anne's Lace Flower

This pretty annual, which was cultivated extensively in the gardens of our grandparents, has been brought to prominence again. Florist shops throughout the country now display it, and its lovely, refined appearance and color make an instant appeal. Few flowers are as lovely for decorating the dinner table. Queen Anne's Lace Flower grows into an upright, very much-branched plant about 2 feet high. Each branch ends in an umbel of sky-blue flowers, which spread out in an umbrella-like fashion, crowning each shoot with a beautiful and delicate head of flowers. Each individual bloom in the umbel is carried on a thin and long tube, giving the flower-heads a distinct and refined appearance. The name Queen Anne's Lace Flower is most appropriately applied to the flowers since the graceful form of the umbels of bloom resemble in their quaint and artistic arrangement, the most delicate and dainty lace. It is easily grown and a splendid cut-flower, lasting unusually long in water. Seed may be sown outdoors in a well-prepared seed-bed when trees are out in leaf; water copiously during hot weather. **Pkt. 25 cts., ¼oz. $1.**

Gilia capitata

A very graceful annual, growing about 2 feet high, with fine feathery foliage, and bearing freely, over a long season, globular heads of bloom about 1 inch across. We offer a lavender-blue and white form. A splendid annual, lasting well when cut.

Capitata. Lavender-blue. **Capitata Alba.** White.

Pkt. 15 cts., ¼oz. 35 cts., oz. $1.25

Giant Shirley Foxglove

(Digitalis)

A new and magnificent strain of Foxgloves raised by the late Rev. W. Wilks, who originated the Shirley Poppy. It is considered by plantsmen as being the greatest improvement ever made in Foxgloves. The very vigorous plants attain the height of 5 to 7 feet, with spikes of bloom ranging in color from the purest white to dark rose, handsomely spotted and blotched with crimson, maroon, and chocolate. This is certain to supersede all other strains of Foxgloves. Seed sown this spring should produce plants which, if properly grown on outdoors this summer and placed in their permanent positions before autumn will make a glorious show next season. **Pkt. 25 cts., ¼oz. $1.50.**

GEUMS

Three Fine New and Rare Double Varieties

The following three new large-flowering Geums are among the best hardy perennials of recent introduction.

Double Orange Queen. We are pleased to offer what has hitherto baffled the hybridists and selecters to produce, namely, a Geum of a shade, intermediate, so to speak, between that of Mrs. Bradshaw and Lady Stratheden. The plants are similar in habit to both of these highly popular sorts, and as they are quite as large and free-blooming, we have no doubt that Orange Queen, in coming to complete a splendid trio, will soon acquire an equal share of public favor. Height, 1½ feet. **Pkt. 25 cts., 5 pkts. $1.**

Double Mrs. Bradshaw. The very large, full flowers are an attractive shade of orange-scarlet. They come quite true from seed and bloom the first year, if sown early. Height, 1½ feet. **Pkt. 15 cts., 5 pkts. 50 cts.**

Double Lady Stratheden. Fine rich golden yellow flowers. A splendid companion to Orange Queen and Mrs. Bradshaw. Height, 1½ feet. **Pkt. 25 cts., 5 pkts. $1.**



Double Orange Queen Geum



Gilia capitata



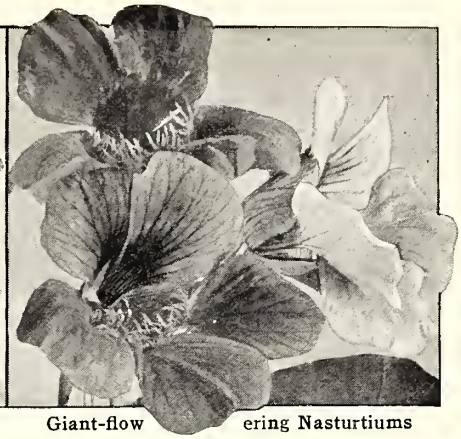
Double Godetia. See page 63



Nicotiana Sanderæ, Crimson King



Hunnemannia fumariæfolia



Giant-flowering Nasturtiums

New Godetia

We are pleased to offer five new varieties of this charming annual of easy culture. The plants are of distinct and graceful habit and are excellent for cutting. The sprays should be cut as the flowers are just coming to perfection, as they will fully develop after being placed in water. Excellent border plant, frequently attaining the height of 2 to 3 feet.

Tall Double Pink **Tall Double Crimson**
Tall Double Rose **Tall Double Mauve**
Tall Double Carmine

Any of the above varieties, pkt. 25 cts., ¼oz. 75 cts.

Hunnemannia fumariæfolia

Santa Barbara Poppy or Bush Eschscholtzia

This is by far the best of the Poppy family for cutting, remaining in good condition for several days. Seed sown early in May will, by the middle of July, produce plants covered with their large, buttercup-yellow, Poppy-like blossoms, and never be out of flower until hard frost. The plants grow about 2 feet high, are quite bushy, with beautiful, feathery, glaucous foliage. **Pkt. 10 cts., ¼oz. 50 cts., oz. $1.50.**

Lilies from Seed

Most of the following will produce flowers the second year from seed. In other words, give them the same treatment as other hardy perennials. Generally, a soil that is slightly acid, and into which a little peat or leaf-mold has been incorporated, suits them best.

regale (The Royal Lily).
Martagon Hybrids (Turk's-Cap Lily).
Martagon album (White Turk's-Cap Lily).
columbianum (Columbian Lily).
Szovitzianum (Szovits' Lily).
Washingtonianum (Washington Lily).
dalmaticum Hybrids.
giganteum (Himalaya Lily). 14 ft.

Any of the above, pkt. 50 cts., 5 pkts. $2

Nicotiana Sanderæ

Crimson King

Several handsome hybrids of the original annual *Nicotiana affinis* have ornamented many gardens for a number of years, but this new variety excels them all in color, presenting, as it does, the richest and deepest tint, a dark velvety crimson-red, which has thus far been produced in the Nicotiana family. **Pkt. 25 cts., 5 pkts. $1.**

Nasturtium, New Giant-Flowering

The plants are strong and vigorous, with very large, bright green leaves, measuring from 5 to 8 inches across. The flowers, which are very numerous, measure 3 inches in diameter, and are borne on long stems well above the foliage. They are exquisitely formed, with overlapping, crinkled petals. They are produced in great numbers and have a most striking effect. Their fine color, long stems, great size and esthetic form make them valuable for cutting.

Giant-flowered, Dwarf, Mixed. Pkt. 15 cts., oz. 25 cts., ¼lb. 75 cts., lb. $2.
Giant-flowered, Tall, Mixed. Pkt. 15 cts., oz. 25 cts., ¼lb. 75 cts., lb. $2.

Balcony Petunias

We offer below this splendid type of Petunias in both the plain edged varieties as well as those of recent introduction, the Balcony fringed. The plants of these two types are symmetrically formed, grow about 1 foot high, and the flowers are rich and pure, measuring 3 inches across.

Balcony Plain	Balcony Fringed
Blue. Rich indigo-blue.	**White Beauty.** White.
Rose. Rose-pink.	**Pride of Portland.** Deep rose.
White. Pure white.	**Pink King.** Light rose.
Elks Pride. Blackish purple.	**Scarlet Beauty.** Bright scarlet.

Any of the above, pkt. 25 cts., 5 pkts. $1

Bedding Petunia, Pink Beauty

This is a grand acquisition to the single bedding Petunias. The flowers are very large, of handsome form, brilliant rose-pink, with throat lightly suffused yellow. Of very rapid growth and continuously in bloom. Many who have grown this Petunia in beds, borders, or rockery proclaim it the best they have ever seen. **Pkt. 15c., ⅛oz. $1.**



Bedding Petunia, Pink Beauty



Physalis Franchetii. See page 64



Balcony Petunia



Double Queen Poppy



Giant Polyanthus



Carnation-flowered Poppy



Double Hybrid Pyrethrums



Statice sinuata



Ostrich-Plume Salvia

Physalis Franchetii

Chinese Lantern Plant

This beautiful little plant, which is grown chiefly for the orange-scarlet lantern-like fruits that are gathered in the fall and serve as splendid decoration in the home at Thanksgiving and Christmas time, is of comparatively easy culture. While a perennial, it can be had in flower the first year. **Pkt. 25 cts., 5 pkts. $1.**

Poppy, Double Queen

This beautiful new strain of Poppies is of the Shirley type, but the flowers are double and semi-double, of the most delicate and brilliant colors, including salmon, pink, crimson, orange-salmon shaded white, brilliant scarlet with white center. For graceful beauty these Poppies are unexcelled and will be highly prized for the flower-garden and cutting. Like all of the annual Poppies this variety should be sown early in the spring. **Pkt. 15 cts., ¼oz. $1.**

Poppy, Carnation-Flowered

Annual. Large, fringed flowers, very double in form. The colors include white, pink, salmon, orange, and scarlet. Carnation-flowered Poppies are excellent for beds and borders. **Pkt. 10 cts., ¼oz. $1.**

New Primula malacoides

Fimbriata. The flowers of this charming new greenhouse Primula are of a lovely pink hue, beautifully and delicately fringed, a phenomenon which has not hitherto appeared in the Malacoides section and which enhances the attraction of the plant to a remarkable degree. Both for culture in pots and for cutting we can strongly recommend this very attractive novelty. Pkt. 25 cts., 5 pkts. $1.

Pink Beauty. Beautiful rose-pink. Pkt. 25 cts., 5 pkts. $1.

Superba. New improved variety with larger and deeper colored flowers. Pkt. 25 cts., 5 pkts. $1.

Giant Polyanthus

The visitor to any of the famous gardens of England in May-time is greatly impressed with the manner in which this beautiful Primrose is used and the gorgeous display the better varieties present. Many of the larger gardens use them to intersperse between May-flowering tulips in their bulb-gardens, but they are best seen to advantage in borders or in beds. The strain we are offering is of strong, sturdy habit, and bears immense trusses of large flowers on strong stems 10 inches in length. The colors vary from pure white to rich wallflower-red. Seed is usually sown in early summer, in a frame, and the plants transplanted to the garden in the autumn. They require slight protection over winter. **Pkt. 25 cts., 5 pkts. $1.**

Pyrethrum, S. & W. Co.'s New Double Hybrids

This beautiful perennial, when grown from a selected strain, is one of the finest for cutting. The seed we are offering is grown by a specialist who, after painstaking effort, has produced a wonderful strain. The flowers are large, very double, and the colors are distinct shades of pink, salmon, scarlet and pure white. **Pkt. 25 cts., 5 pkts. $1.**

Ranunculus

Asiaticus, Palestine Strain

Originating from a wild, large-flowered Ranunculus found in Palestine, a variety of colors—reds, yellows, orange, etc.—have been produced; many are marked with green. The mixture includes singles, semi-doubles, and doubles, the flowers making the plants a blaze of color. A bed of these is a remarkable sight. **Pkt. 50 cts.**

NEW SALVIAS

HARBINGER. This new English introduction, which was first featured at the British Empire Exhibition, at Wembley, in 1924, is a notable advance in this favorite plant. It is a true dwarf, large-flowering Salvia which commences blooming in July from early-sown seed and continues until hard frost. It makes beautiful symmetrical plants about 15 inches high, and is densely clothed with long sprays of large, brilliant scarlet flowers. **Pkt. 25 cts., 5 pkts. $1.**

AMERICA or GLOBE OF FIRE. A new variety of this popular flower. The bushy plants do not grow over 15 inches high, with the large spikes of brilliant scarlet flowers thrown well above the plant, making a total height of about 2 feet. If desired for borders or beds, this is indeed an acquisition on account of its uniformity of height. **Pkt. 25 cts., ⅛oz. $1, ¼oz. $1.75.**

OSTRICH-PLUME. The Ostrich-Plume Salvia is the most beautiful of all Salvias of recent introduction. The habit of the bush resembles the Splendens type but, unlike Splendens. The bush is well covered with plumes of blossom. As a cut-flower one of these scarlet plumes alone makes a delightful decoration. Comes 75 per cent true from seed. **Pkt. 15 cts., 5 pkts. $1.**

New Large Scabiosas

Hardy Annuals

SHASTA. Pure white, with immense blooms from 3 to 4 inches in diameter. The stems are exceptionally long, and the variety is invaluable for cutting. **Pkt. 25 cts., 5 pkts. $1.**

PEACH BLOSSOM. A lovely new shade of peach-blossom-pink. The flowers are large, borne on long stems, and are therefore excellent for cut bloom. Peach Blossom was "highly commended" by the Royal Horticultural Society of England. **Pkt. 25 cts., 5 pkts. $1.**



ANTIRRHINUM (Snapdragon) GIANT FLOWERING HALF HIGH VARIETIES

This is considered one of the finest half-hardy perennials which may be flowered from seed the first year. Plant-breeders both in Europe and America vie with one another each year in introducing new strains. They are very valuable, both as a cut-flower for home decoration or for bedding. The following 6 varieties attain the height of 1½ feet and are splendid varieties in every way.

1. CARMINE QUEEN
2. MONT BLANC
3. THE FAWN
4. GOLDEN QUEEN
5. APRICOT QUEEN
6. FIREBRAND

Any of the above named varieties, each, pkt. 15 cents, ¼ ounce 75 cents

COLLECTION: 1 packet each of the above 6 fine varieties, 75 cents



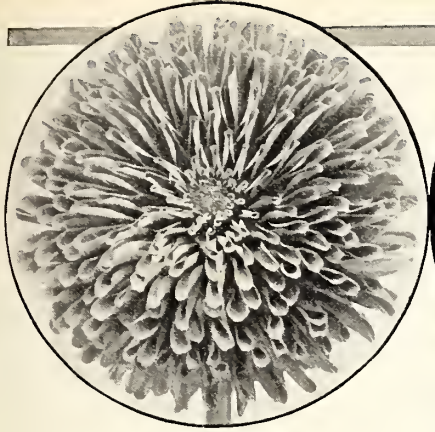
12 Distinct Giant Summer-flowering Sweet Peas

1 SCARLET	5 CREAM	9 CREAM PINK
2 WHITE	6 LAVENDER	10 MAROON
3 BRIGHT BLUE	7 NAVY BLUE	11 PURPLE
4 CARMINE	8 LIGHT PINK	12 SALMON-PINK

Each, pkt. 15 cts., oz. 50 cts.

SPECIAL OFFERING

COLLECTION. One pkt. each above 12 distinct colors, $1. One oz. each above 12 distinct colors, $5



Victory Quilled Zinnia



Picotee Zinnia



Dahlia-flowered Zinnia

Statice (*Sea Lavender*)

The Sea Lavender has become very popular, especially for cutting for house decoration. The cloud-like masses of flowers of the branching varieties make borders gay for a long time, while their delicate coloring and light, graceful habit are a great help to helichrysums and other everlasting flowers. Sow seed outdoors early in May or to get an early start sow in a hotbed in March and transplant in April.

Suworowi. Cloud-like masses of bright rose.
Sinuata, Mauve. Clear mauve.
Sinuata, Rose Superba. New. Beautiful rose.
Sinuata, Blue. Rich deep blue.
Sinuata, Yellow (*Bonduelli*). Bright yellow.

Any of the above, pkt. 25 cts., 5 pkts. $1

Two Sweet Williams

We are offering in the specialties section of our catalogue two really worth-while Sweet Williams. They have been grown in many American gardens for years, but we feel that their value should be brought more prominently to the attention of garden-lovers. Seed of this pretty hardy biennial should be sown in a frame during late spring and transplanted to the garden in early autumn, so that they become well established before winter.

Scarlet Beauty. An intensely rich, deep scarlet, very vivid, and quite an improvement over other listed varieties of its color.
Newport Pink. A beautiful even shade of watermelon-pink or salmon-rose. The flowers are borne in massive heads, on stems 1½ feet high.

Each, pkt. 15 cts., 2 pkts. 25 cts.

Thalictrum Dipterocarpum

Among the genus of hardy plants this is a real gem, not only for garden, but its dainty, graceful sprays of flowers, elegantly arranged on stems 4 feet high, are invaluable for cutting The flowers are a charming shade of violet-mauve, which is brightened by a cluster of lemon-yellow stamens and anthers. **Pkt. 25 cts., 5 pkts. $1.**

New Verbenas, Hybrida Grandiflora

A magnificent new strain of Verbenas, of robust, compact habit and free blooming. The trusses are immense, the individual florets measuring an inch and over in diameter.

Blue. White eye.
Coccinea. Scarlet, small eye.
Lucifer. Vivid scarlet self.
White King. Pure white.
Rose King. Rose-pink, large white eye.

Any of the above, pkt. 25 cts., ¼oz. $1

Luminosa. A new color—on a ground of flame-pink we have shades of salmon, flesh, and coral, giving an effect which is unusual and very beautiful. The flowers are very large. Pkt. 25 cts., ¼oz. $1.50.

Viscaria, Tom Thumb

This beautiful new race of Viscarias is quite unlike others, in that the plants are compact and bushy in form and bloom so freely as to be entirely covered. The plants grow evenly in height and require about the same time from sowing to blooming as sweet alyssum. Individual flowers resemble single wild roses in miniature form. We offer three distinct colors.

White Queen. Pure white. **Rose Queen.** Rose.
Blue Queen. Bright blue.

Any of the above, pkt. 25 cts., 5 pkts. $1

NEW ZINNIAS

We offer on pages 117 and 120 all the types of Zinnias listed by us, but have illustrated in our Novelty Section several new types which our California growers have developed in recent years.

New Double Dahlia-flowered. We are pleased to say that we have again been able to secure this Zinnia in separate colors this year. The plants attain the height of 3 feet, producing mammoth flowers averaging 6 inches across by 3 to 4 inches in depth, similar in shape to the Decorative Dahlia, with the same fullness of the petals. The huge flowers keep well when cut.

Buttercup. Very large flowers of deep creamy yellow.
Crimson Monarch. Immense flowers of flaming crimson.
Dream. Deep lavender blue—a remarkable shade.
Exquisite. Light rose, with deep rose center.
Oriole. A striking two-color flower—orange and gold.
Polar Bear. Large pure white.
Scarlet Flame. Bright scarlet, blended with orange.
Mixed. A mixture of all shades.

Any of the above, pkt. 25 cts., ¼oz. $1.50, oz. $5

Picotee. The flowers of this new type of Zinnias are not as large as those of the Giant Double varieties but are very effective. The petals are all well marked with a color distinct from that of the body of the flower. Plants attain a height of 1½ feet. We offer them in a splendid mixture of colors. **Pkt. 25 cts., 5 pkts. $1.**

Victory Quilled. This new type of Zinnia has petals similar in form to the cactus dahlia. The petals have a rather refined looking appearance and are very graceful. Plants attain a height of 1½ feet. We offer them in a good mixture of colors. **Pkt. 25 cts., 5 pkts. $1.**

Dwarf Double Salmon-Rose. While the Giant Double and Dahlia-flowered Zinnias are in great demand for cutting purposes, we wish to recommend this very beautiful variety for bedding or as a dwarf border variety or for table decoration. The color is a brilliant salmon-rose. **Pkt. 15 cts., oz. $1.50.**



Verbena hybrida grandiflora



Tom Thumb Viscaria



Newport Pink Sweet William

Fifteen Fine Exhibition Sweet Peas

Each year the Sweet Pea enthusiasts of Europe and America offer a list of Novelty Sweet Peas. There are now several hundred good varieties in commerce, many of them of splendid merit, but in many cases the varieties are much alike. We have listed on pages 114 and 115 of our catalogue 40 of the most distinct varieties which we respectfully recommend. Many of our customers, however, are desirous of growing a limited number of varieties but want these to be the very best. It is with this in mind that we offer the following:

	Pkt.	Oz.
Charity. This is, without a doubt, the finest rich brilliant crimson which does not burn in the sun. A vigorous grower, the exquisitely waved flowers are usually produced in fours on long, graceful stems.	$0 15	$0 75
Crimson King. A striking shade of deep rich crimson. Very large flower with the true Spencer wave	15	75
Defiance. The most brilliant Sweet Pea yet introduced. It is a fine, large, orange-scarlet, burnless; of vigorous habit. As great an advance over Royal Scot as Mrs. Tom Jones was over Wedgwood	25	1 50
Del Monte. A beautiful shade of salmon-pink-cerise. The flowers are enormous and strongly fluted	25	1 00
Dobbie's Cream. Deep cream. Still a winner at all Sweet Pea exhibitions on account of its splendid size and long stems. Where a good primrose variety is desired, we suggest that this one be used	$0 10	$0 50
Hawlmark Lavender. Without a doubt the finest pure lavender as yet introduced. The flowers are of the largest size and of great substance	25	1 00
Hawlmark Pink. This might easily be considered the finest introduction in recent years. The color is a most beautiful shade of rich rose-pink, deeply flushed and shaded with salmon. The flowers are freely borne on many four-flowered sprays	25	1 00
Heavenly Blue. A fine new variety of a most beautiful soft tone of Delphinium blue. It is a pure blue self that does not show a trace of violet. The flowers are of immense size with flowers invariably well placed on long, stiff stems. The introducer claims this novelty to supersede Mrs. Tom Jones, which, up to this time, we considered the finest bright blue.	25	3 00
King White. Still holds the fort as being the finest pure glistening white Sweet Pea in cultivation	10	50
Mrs. C. P. Tomlin. This is now considered the leader among the rich crimson-scarlets; remarkable for its purity of tone and substance. The color is scarlet with a touch of fiery red in it. The flowers are of larges size, producing many four-flowered sprays	15	75
Picture. Considered the largest Sweet Pea introduced to date and of unusual substance. The color is a blend of cream and pink shades quite different from the usual cream-pink varieties, the color being flushed deeper in the wings, and the pink shade being brought out by the creamy flush in the center of the standard	25	1 00
Royal Pink. This is one of the largest Sweet Peas. The ground-color is light pink, but suffused with deeper pink and shrimp	25	1 00
Royal Purple. Without a doubt this is the finest rich royal purple. A large-flowering variety, with many four-flowered sprays	10	50
Sparkler. A wonderful exhibition variety of recent introduction. The color is a lovely combination of rose and cream, the standard being a bright rose, the wings a creamy primrose lightly suffused soft rose	15	60
Tangerine. This variety has been appropriately named; a deep orange, almost approaching the color of the tangerine orange. Flowers of great size and well waved	15	75



Royal Purple Sweet Peas

COLLECTIONS

One packet each of above 15 fine Exhibition varieties $2 00

One ounce each of above 15 fine Exhibition varieties $10 00



GENERAL LIST OF FLOWER SEEDS

In presenting this list of **Flower Seeds** for your attention, every care has been taken to secure **seeds** from sources of supply known to us, and from our experiences and from our tests at our **trial grounds,** to be of the highest possible merit. Our Flower Seeds are selected with an idea of superiority of strain and we handle only the highest possible types in each respective class.

We mail all Flower Seeds FREE OF COST to any Post Office in the United States.

ABUTILON

(Chinese Bellflower, Flowering Maple)

Finest Mixed. Attractive coolhouse shrub and window-plant, and valuable for summer bedding. Perpetual-blooming, bearing lovely bell-shaped flowers. Height 4 feet. Pkt. 25 cts., $\frac{1}{32}$oz. $1.

ABRONIA

Verbena-like plants, very fragrant, especially toward evening. Charming trailers for vases, rockwork, etc. Half-hardy annuals.

Umbellatum. Rosy pink. Height 9 inches. Pkt. 10 cts.

ACANTHUS (Bear's Breech)

Mollis latifolius. Hardy perennial. Grows 3 feet high, and has rose-colored flowers in August and September. Pkt. 15 cts.

ACHILLEA

Ptarmica, The Pearl (Sneezewort). Hardy perennial. Bears a profusion of small, double, white flowers during the entire season. Fine for cutting. Height 2½ feet. Pkt. 25 cts., ⅛oz. $2.

Filipendula. Yellow. Height 3 feet. Pkt. 15 cts.

Millefolium roseum. Pink. Height 1½ feet. Pkt. 15 cts.

Ptarmica, Boule de Neige. White. Height 2 feet. Pkt. 15 cts.

Tomentosa. Yellow. Height 6 inches. Pkt. 25 cts.

ACONITUM (Monkshood or Wolfsbane)

Napellus. A hardy perennial producing long spikes of curiously shaped blue flowers. Well adapted for planting among shrubbery. Height 3 to 5 feet. Pkt. 15 cts., ⅛oz. 60 cts., ¼oz. $1.

Fischeri. Dwarf; pale blue. Height 1½ feet. Pkt. 15 cts., ⅛oz. $1.

Finest Mixed. All colors. Pkt. 10 cts., ⅛oz. 60 cts., ¼oz. $1.

ACROCLINIUM. See page 121.

ADLUMIA (Mountain Fringe)

Cirrhosa. A very graceful, hardy, biennial climber. The foliage is somewhat similar to that of maidenhair fern. The flowers are tube-shaped, white or purplish, resembling in form the bleeding-heart and entirely cover the plant. Excellent for trellises or old stumps of trees. Flowers first season from seed, if sown early. Pkt. 15 cts., 2 pkts. 25 cts.

ADONIS

	Pkt.	¼oz.
Æstivalis (Pheasant's Eye). Hardy annual. Dark green foliage; scarlet flowers. Height 1 foot.....	$0 10	$0 25
Autumnalis (Flos Adonis). Small, crimson flowers, with dark center; globose. Height 1 foot.....	10	25
Vernalis (Spring Adonis). Hardy perennial, with large yellow flowers in the early spring. Height 1 foot....	10	50

AGERATUM (Floss Flower)

One of the very best bedding plants, being literally a sheet of bloom from early summer till frost. Unlike many bedding plants, their flowers are not liable to be spoiled by rain, nor do the colors fade out. Easily raised from seed, which is usually started in a hotbed or window and transferred to the open ground in May. Can also be sown outdoors in May.

Blue Perfection. Large heads of deep blue flowers produced in abundance. Fine for cutting. Pkt. 10 cts., ¼oz. 50 cts.

Little Blue Star. A very dwarf variety used largely for edging, growing about 4 to 5 inches high; bright blue flowers. Pkt. 25 cts., 5 pkts. $1.

Little Dorrit, Blue. This variety grows about 6 inches high; flowers bright blue. Pkt. 10 cts., ¼oz. 50 cts.

Little Dorrit, White. Same in habit as preceding, only white. Pkt. 10 cts., ¼oz. 50 cts.

Mexicanum Capella. Distinct variety growing about 9 inches high; flowers rosy chamois. Pkt. 15 cts., 2 pkts. 25 cts.



Ageratum

AGATHÆA (Blue Daisy)

Cœlestis. A tender perennial, with beautiful blue flowers. Fine pot plant for winter blooming in conservatories. Height 1 foot. Pkt. 15 cts., 2 pkts. 25 cts.

AGROSTEMMA

Coronaria (Rose Campion; Mullein Pink). Hardy perennial. Flowers dark blood-red and very large; foliage silvery. Height 2 feet. June to September. Pkt. 10 cts., ¼oz. 50 cts.
Coronaria alba. White. Pkt. 10 cts., ¼oz. 50 cts.
Coronaria, Mixed. Pkt. 10 cts., ¼oz. 50 cts.
Flos-Jovis. Pink. Height 1 foot. Pkt. 10 cts.

ALYSSUM

This most popular hardy annual needs little introduction. Used extensively as a border for the flower-garden, but equally valuable as a cut-flower, owing to its delightful fragrance.

Little Gem (*A. maritimum*). Plants grow only 3 to 4 inches high, and each plant completely covers a circular space of 12 to 20 inches. Pkt. 10 cts., oz. 75 cts.
Sweet Alyssum (*A. Benthami*). The well-known fragrant white variety. Pkt. 10 cts., oz. 50 cts.
White Carpet (*A. compactum procumbens*). Pure white; grows only 2 to 3 inches high and flowers profusely. Pkt. 10 cts., oz. $1.
Saxatile compactum. Hardy perennial. Excellent rock or border plant, bearing bright yellow flowers from April to June. Height 9 inches. Pkt. 15 cts., oz. $1.50.

AMARANTHUS

Brilliant-foliaged annuals, growing from 3 to 5 feet high, some of the varieties bearing curious racemes of flowers. All are useful in borders of tall plants, or for the centers of large beds. They thrive best in a hot, sunny location and not too rich soil.

Caudatus (Love-Lies-Bleeding). Blood-red; drooping. Pkt. 10 cts.
Cruentus (Prince's Feather). Dark red, feathery flowers. Pkt. 10 cts.
Sunrise. Considered the most brilliant of this family. The foliage is a bronzy crimson, each branch terminating with a tuft of bright scarlet-carmine leaves. Pkt. 15 cts., 2 pkts. 25 cts.
Tricolor (Joseph's Coat). Leaves red, yellow, and green. Pkt. 10 cts.



Border of Alyssum, Little Gem



Long-spurred Aquilegias

ANCHUSA

Capensis. Biennial. Flowers azure-blue. 1½ feet. July and August. Pkt. 10c., ¼oz. 50c.
Italica, Dropmore Variety. A hardy perennial whose bright blue, forget-me-not-like flowers are borne on graceful stems during the entire season and late into the fall. It is a great improvement over the existing varieties. Height 4 to 5 ft. Pkt. 15c., ¼oz. $1.

ANDROSACE

Lanuginosa. Hardy perennial. Grows 6 inches high, and has rose-colored flowers during June and July. Valuable for the rock-garden. Pkt. 25 cts.

ANEMONE

Single Giant de Caen (Windflower). Half-hardy perennial. The giant French Anemone. Excellent for cutting. 9 inches. Pkt. 10 cts., ¼oz. 75 cts.
St. Brigid (Irish Anemone). A great variety of colors. Pkt. 25 cts., ¼oz. $2.

ANTHEMIS

Kelwayi (Marguerite). Hardy perennial. Large, daisy-like yellow flowers; good for cutting. Height 2 feet. July to September. Pkt. 10 cts., ¼oz. 75 cts.
Nobilis. White. 2 feet. Pkt. 10 cts., ¼oz. 75 cts.

AQUILEGIA (Columbine)

The Aquilegias are fine, free-flowering, hardy border plants. Seed may be planted in the open ground early in the spring, and will, in the case of single varieties, bloom the same season. Best results are obtained by planting in August, when they will come up early in the spring, making vigorous plants, blooming during late spring and early summer.

Giant Long-spurred, Mixed. A very excellent mixture of Columbines, comprising new and pleasing shades and combinations, effective and striking in the individual flowers, in many shades of lavender, blue, mauve, white, yellow, orange, scarlet, and bright rose-pink. **Pkt. 25c., 5 pkts. $1.**

Californica hybrida. Beautiful flowers, principally yellow and orange shades. Pkt. 15 cts., ¼oz. $1.50.
Chrysantha. Canary-yellow. About 3 feet. Pkt. 10 cts., ¼oz. $1.25.
Cærulea. Violet-blue and white. About 2 feet. Pkt. 15 cts., ¼oz. $2.
Skinneri. True scarlet tipped with green. 3 feet. Pkt. 15 cts., ¼oz. $2.
Rose Queen. Rose shades with white centers and yellow anther; beautiful. 3 feet. Pkt. 25 cts., ⅛oz. $1.
Stuartii. Beautiful, large; pale blue. 2 feet. Pkt. 50 cts.
Double Mixed. Very fine. 3 feet. Pkt. 10 cts., ¼oz. 50 cts.
Single Mixed. Fine varieties. 3 feet. Pkt. 10 cts., ¼oz. 50 cts.



Giant Double King Carnations

(SWEET SCENTED)

Easily Grown from Seed

MANY gardeners do not realize how readily these Carnations may be grown. Seed may be sown outdoors when cold weather has gone, or for earlier bloom, they may be sown in a frame, a greenhouse, or in a sunny window. Plant out the seedlings 6 inches apart, and from midsummer until frost you will have Carnations just as full and sweetly perfumed as those sold by the florist, and almost as large. All they need is garden soil of fair average quality and plenty of sun. If you look for best results, however, dig a little bone fertilizer into the land at planting-time and rake some into the surface during growth. Also, you may remove side buds so as to allow one flower on a stem at a time.

1. MAROON KING
2. ROSE KING
3. PINK KING
4. WHITE KING
5. YELLOW KING
6. RED KING

Each, pkt. 25 cts., ¼oz. $2

COLLECTION. One pkt. each of the above 6 Kings, $1



New Asters—S. & W. Co.'s Midseason Giants

WE BELIEVE this new type to be the best Aster in cultivation today. The sturdy, upright plants produce giant flowers often 6 inches across, fully double, and of great substance, on long stems. For decorative effect in the garden and for cut bloom the Midseason Giants are unsurpassed.

1. Light Blue Giant	4. Rich Rose Giant
2. Peach-Blossom Giant	5. Light Purple Giant
3. White Giant	6. Dark Purple Giant

Each, pkt. 25 cts., ¼oz. $1.50

COLLECTION. One pkt. each of the above 6 Midseason Giarts, $1



Queen of the Market Aster



Early Royal Aster



Improved Crego Aster

S. & W. CO.'S SUPERB ASTERS

Asters will thrive in any good soil, prepared in the same way as you would for a crop of vegetables, but it is well to remember that any extra care taken in the preparation of the soil is repaid by finer plants, larger blooms, with longer stems and more profuse flowering. They should have an open, sunny position, and prefer a good, heavy, loamy soil enriched with a liberal quantity of Bone Dust No. 2, and an addition of air-slaked lime, and we do not advise growing them on the same ground two years in succession; it is better to change each season. For early flowering, seeds should be started in a sunny window, hotbed or coldframe in April and transferred to their place in the garden as soon as danger of frost has gone by. For August (midseason) and September (late) sow seeds outside in finely prepared ground in May, thinning out to 1 foot in the rows and 2 feet between. With the above prescribed treatment and frequent cultivation of plants to insure a steady growth until flowering, excellent large blooms with long stems can be obtained.

For the purpose of aiding our patrons in making easy selections of the kind of Asters they desire to grow, we are listing the varieties under the headings Early, Midseason, and Late. The early sorts, such as Early Wonder, Queen of the Market, Lavender Gem, and Early Royal, begin blooming in July, followed by the midseason varieties, such as the Kings, Improved Cregos, California Giants, White Perfection and the Astermums. Then come the late-flowering varieties, such as S. & W. Co.'s Late Branching, The Beauty Type, Autumn Glory, Heart of France, and Pink Enchantress which come into bloom from the end of August on through September into October. It is quite easy, therefore, with a little care in the selection of the varieties, to have Asters in bloom from early July to hard frost.

EARLY-BLOOMING ASTERS

Early Wonder. We consider this the earliest Aster in our list, flowering in early July from seeds sown in the open ground at the end of April, or, if sown indoors in March, can be had in bloom before the close of June. The flowers are of good size, quite double, and are borne on good, long, stiff stems, which, added to their extremely early flowering, makes them of great value for cutting.

Carmine-Rose	**White**	**Light Rose**
Light Blue	**Purple**	**Mixed**

Any of the above colors, or mixed, pkt. 15 cts., ¼oz. 75 cts.

COLLECTION: One pkt. each of above 5 colors, 50 cts.

Queen of the Market. This well-known, early-flowering Aster is of a branching habit, growing about 1½ feet high, and comes into bloom directly after Early Wonder.

White	**Crimson**	**Flesh-Pink**
Rose	**Dark Blue**	**Light Blue**
	Mixed	

Any of the above colors, or mixed, pkt. 10 cts., ¼oz. 50 cts.

COLLECTION: One pkt. each of above 6 colors, 50 cts.

Early Royal. **(Branching Type.)** This type of Aster is of recent development and is best described as an early-flowering form of our Superb Late Branching Aster, having all the good qualities of the latter, but coming into bloom in early August. It is a splendid type of Aster for beds or borders, and its long-stemmed flowers are ideal for cutting.

White	**Rose-Pink**	**Shell-Pink**
Lavender	**Purple**	**Mixed**

Any of the above colors, or mixed, pkt. 15 cts., ¼oz. 75 cts.

COLLECTION: One pkt. each of above 5 colors, 50 cts.

Semesan is a seed disinfectant. Dusting the seed with it protects against fungus and disease. 2 ozs. 50 cts., ½lb. $1.60, lb. $2.75, 5 lbs. $13.

MIDSEASON-BLOOMING ASTERS

Improved Crego, or Ostrich-feathered. **(Improved Comet Type.)** This is considered to be the finest and largest of all the Comet Asters. The flowers are borne on long, stiff stems and are of a fluffy character, frequently measuring 5 inches and over in diameter. They are splendid for cutting purposes on account of their good keeping qualities.

White	**Purple**	**Lavender**	**Crimson**
Azure-Blue	**Pink**	**Deep Rose**	**Mixed**

Any of the above colors, or mixed, pkt. 15 cts., ¼oz. 75 cts.

COLLECTION: One pkt. each of above 7 distinct colors, 75 cts.

The Six King Asters. This magnificent class of Asters is distinct from all others in the character of the flowers. The long, narrow petals are folded lengthwise, appearing almost as though quilled, and the flowers are of great size and substance, lasting longer when cut than any other class. Their season for blooming is just after the earliest varieties and before the Late Branching types.

Lavender King	**Violet King**	**Rose King**	**Mixed**
Pink King	**White King**	**Crimson King**	

Any of the above colors, or Mixed, pkt. 15 cts., ¼oz. $1.25

COLLECTION: One pkt. each of above 6 distinct colors, 75 cts.

Astermums. A splendid new race of American-raised Asters selected from the Comet Type. The plants are of upright growth, frequently having twelve to fifteen strong, sturdy stems 1½ to 2 feet long, each carrying enormous flowers of splendid form, the petals completely covering the center so as to give the impression of one of the large Japanese chrysanthemums. This Aster has been grown with excellent success this past season.

Snow-White	**Rose-Pink**	**Lavender**

Any of the above colors, pkt. 15 cts., ¼oz. $1

COLLECTION: One pkt. each of above 3 colors, 35 cts.



Astermum



Late Branching Aster



Beauty Aster

S. & W. CO.'S SUPERB ASTERS

LATE-BLOOMING ASTERS

S. & W. Co.'s Late Branching

This exceptionally fine Aster is without a rival. It is as well known in Europe as in America, and although we placed it on the market only a few years ago, today every florist has a fine stock of the flowers in his window just before the chrysanthemum comes in; and it is often mistaken for the chrysanthemum, which it so much resembles. The flowers are of extraordinary size—much larger than other varieties—and stand erect on long, graceful stems, well above the foliage; flower-stems 15 to 20 inches long. Grand for cutting. Plants extra large and of strong growth; one plant will cover a space 2½ feet square. By far the most satisfactory Aster grown.

Pure White	**Rose-Pink**	**Purple**
Shell-Pink	**Lavender**	**Crimson**
	Mixed	

Any of the above colors, or mixed, pkt. 10 cts., ¼oz. 50 cts.
COLLECTION: One pkt. each of above 6 colors, 50 cts.

Beauty

This is a recently developed late-flowering strain, coming into bloom late in September and being at their best through October. The plants grow nearly 3 feet high and bear their very large, densely covered flowers on long, strong stems. A very desirable addition to the Aster family on account of their late-blooming character and excellence for cutting. We offer five distinct colors.

Light Blue	**Carmine-Rose**	**Purple**
Light Pink	**White**	**Mixed**

Any of the above colors, or Mixed, pkt. 15 cts., ¼oz. $1
COLLECTION: One pkt. each of above 5 colors, 60 cts.

Single Comet Asters

This type of Asters has met with considerable demand recently. From a decorative point of view the possibilities are immense. Their large blooms, often measuring 5 to 6 inches across, make them truly conspicuous.

White	**Light Rose**	**Scarlet**
Light Blue	**Dark Blue**	**Mixed**

Any of the above colors, or mixed, pkt. 15 cts., ¼oz. $1
COLLECTION: One pkt. each of above 5 colors, 60 cts.

Semesan: Seed Disinfectant

Mix a small quantity of Semesan powder with your Aster seeds before sowing—a teaspoonful to one ounce of seed, a "pinch" of the powder to a packet—shake together for a minute and sow. Protects against fungus and disease. 2 ozs. 50 cts., ½lb. $1.60, lb. $2.75, 5 lbs. $13.

MISCELLANEOUS ASTERS

Heart of France. This recent introduction is the largest flowering of the very dark red sorts. The plants grow about 2 feet high, are nicely branched, and bear their long, rich, deep ruby-red flowers on long, strong stems. A very beautiful dark variety and blooms with the late-blooming sorts. **Pkt. 25 cts., ¼oz. $2.**

Lavender Gem. Truly a gem and easily the finest early lavender. In the full, double flower, the feathery effect of the ostrich-feathered type is enhanced by the fact that it bears long, partly tubular florets that are irregularly cut and slashed, resembling ragged chrysanthemums. **Pkt. 15 cts., ¼oz. $1.25.**

Autumn Glory. A beautiful seashell-pink Aster, and one of the latest in our list. It blooms when other late Asters are past their prime, thus prolonging the Aster season two weeks and coming into bloom when good flowers are scarce. The flowers are splendid in size and form, very double, and are borne on stems of unusual length. **Pkt. 15 cts., ¼oz. $1.25.**

Pink Enchantress. This beautiful Aster is a pleasing shade of salmon-pink, similar to the Enchantress carnation. It blooms about a week earlier than Autumn Glory. The flowers are full, double, of medium length and very broad. A splendid variety for cutting. **Pkt. 15 cts., ¼oz. $1.25.**

White Perfection. Finest midseason white Aster in cultivation. The flowers are 4 inches in diameter and exquisite in form, and the plants are taller than those of the late upright Asters. When first open the entire flower is whorled, producing a charming effect; the broad petals are slightly folded lengthwise, making them appear rather narrow. The plants are extremely vigorous, and they carry about twelve large flowers on strong stems free from side branches. **Pkt. 15 cts., ¼oz. $1.25.**

Hardy Perennial Asters

Michaelmas Daisies

Single, fall-flowering, hardy herbaceous plants which thrive in any good garden soil. We offer them in four distinct colors, as well as in a mixture.

Alpinus. Large bluish purple flowers in May and June. Good rock-garden plant. Height 9 inches. Pkt. 15 cts.
Alpinus albus. White form of above. Pkt. 15 cts.
Amellus bessarabicus. Large, rich violet flowers in profusion in August and September. Height 2 feet. Pkt. 10 cts.
Novæ-angliæ, Mixed. Good-sized flowers in September and October. Height 4 feet. Colors, Violet-purple, Reddish Crimson, and Pink. Pkt. 10 cts.
Subcæruleus. Compact, tufted plants with solitary, glowing purple flowers 2 to 3 inches across, on 18-inch stems, in June and July. Pkt. 25 cts.

ANTIRRHINUM (Snapdragon)

The Tall varieties are best seen to advantage in long borders in flower-gardens, making splendid subjects for backgrounds, while the Half-High type have now superseded the others in popularity on account of their suitability for bedding. Seed may be sown in the open ground early in May and be had in bloom in July, but it is best to start the plants indoors in pots or flats or in a frame in March and transplant the seedlings out-of-doors as soon as weather will permit.

Giant-flowered Half-High Varieties

Height about 1½ feet

Apricot Queen. Apricot-pink, white tube.
Carmine Queen. Rose-carmine.
Empress. Rich velvety crimson.
Fascination. Pearly pink self.
Fawn. Rose and gold.
Firebrand. Scarlet, with yellow lip.
Golden Queen. Rich, pure yellow.
Mont Blanc. Pure white.
Prima Donna. Even shade of terra-cotta-pink.
Rose Dore. Rose suffused orange.

Named varieties, each, pkt. 15c., ¼oz. 75c.; mixed, pkt. 10c., ¼oz. 60c.
COLLECTION: One pkt. each of above 10 fine varieties, $1

Giant-flowered Tall Varieties

Height about 3 feet

Garnet. Garnet.
Delicata. Rose-pink.
Queen Victoria. White.
Rose. Beautiful rose-pink.
Scarlet. Bright scarlet.
Yellow. Rich golden yellow.

Named varieties, each, pkt. 15c., ¼oz. 75c.; mixed, pkt. 10c., ¼oz. 60c.
COLLECTION: One pkt. each of above 6 distinct colors, 50 cts.

Forcing Antirrhinums for Greenhouse Use

Orlando (bronze), **Philadelphia Pink, Geneva Pink, Golden Pink Queen** (orchid-pink), **Silver Pink, Helen** (salmon).
Any of the above varieties, pkt. $1, 6 pkts. $5
Nelrose (deep pink). Pkt. 75 cts. **Jeannie Schneider** (pink). Pkt. $2.

Arenaria (Sandwort)

Montana. A dwarf hardy perennial for the rock-garden or for edging. A trailing carpet of green covered with white flowers. Height 6 inches. Pkt. 25 cts.

ARCTOTIS GRANDIS (African Daisy)

A remarkably handsome annual from southwestern Africa. It forms much-branched bushes 2 to 3 feet high, its flowers are large and showy, being pure white on the upper surface, lilac-blue beneath. There are few annual flowers grown in the garden more valuable for cut-flower work than the Arctotis. It may be started in hotbed, in the house or in the open ground, the seed germinating in about five days. The plants may be expected to come into bloom early in July. It delights in a sunny situation. **Pkt. 15 cts., ¼oz. 75 cts.**



Arctotis Grandis



Antirrhinum, Fawn

ARABIS (Rock Cress)

One of the prettiest and earliest of the hardy perennial spring flowers. Splendid for edging and rockeries. The spreading tufts are covered with a sheet of pure white flowers as soon as snow disappears. **Pkt. 15c., ¼oz. 50c.**

ARGEMONE (Mexican or Prickly Poppy)

Mexicana. A very interesting and highly ornamental plant, both in and out of bloom. The plants are of sturdy character, attaining a height of 3 feet. The ornamental spiny foliage has a clear silvery mid-rib, a splendid color contrast. The flowers are poppy-like, of satiny texture, over 3 inches across, in various shades of rich yel ow to creamy white. It blooms early in July and continues without interruption until November. Sow seed where intended to bloom in May, thinning out later; does well in a sunny location and light soil. Pkt. 10 cts., ¼oz. 50 cts.
Platyceras rosea. A recent introduction similar in habit of growth and foliage to the above with rich ruby-rose flowers. Pkt. 15 cts., 2 pkts. 25 cts.

ARISTOLOCHIA (Dutchman's Pipe)

Sipho. A very attractive and highly ornamental climber, with flowers resembling the pitcher plant. Pkt. 10 cts.

Armeria (Sea Pink)

Attractive, dwarf plants that will thrive almost anywhere. From clumps of bright green foliage, the pink or red flowers are borne on wiry stems. Fine for the alpine garden or for use as an edging plant. Hardy perennials. Height 9 inches.
Formosa. Pink. Pkt. 15 cts. **Maritima.** Red. Pkt. 25 cts.

ASPARAGUS

Plumosus nanus. A graceful pot-plant for either house or conservatory. Finely cut foliage. Pkt. 25 cts., 100 seeds $1.
Sprengeri. Drooping foliage, adapted for hanging-baskets or cutting. Pkt. 25 cts., oz. $1.50.

Asclepias (Butterfly Weed)

Curassavica. Hardy perennial with very showy orange flowers. Height 2 feet. Pkt. 25 cts.
Tuberosa. Orange-scarlet. Pkt. 15 cts.



Double Camellia-flowered Balsam

DOUBLE CAMELLIA-FLOWERED BALSAM (Lady's Slipper)

An old and favorite garden flower, producing its gorgeous masses of beautiful, brilliant-colored, double flowers in the greatest profusion; of easiest culture; succeeds in a good, rich soil. Tender annuals. 2 feet. Start the seed indoors in April, or sow out-of-doors in May. When specimens are wanted, plant at least 18 inches apart; splendid when grown in pots.

	Pkt.	Oz.
White Perfection. Large; double; white	$0 10	$1 50
Scarlet King. Glowing, fiery scarlet; large, double flowers	10	1 50
Salmon Queen. Deep rose-pink; large, double flowers.	10	1 50
Lilac Gem. Beautiful pale lilac	10	1 50
Purple King. Double; rich purple	10	1 50
Primrose Gem. Double; beautiful primrose; the best yellow variety to date	10	1 50

COLLECTION: 1 pkt. each, 6 named varieties, 6 pkts., 50 cts.

S. & W. Co.'s Double, Mixed. A mixture of selected self-colors as well as beautiful, spotted, blotched and striped varieties. **Pkt. 10 cts., oz. $1.50.**

ASPERULA (Sweet Woodruff)

Odorata. Hardy perennial. Handsome creeping plant, with deep green, whorled foliage and pretty white flowers. Especially useful for carpeting in shady situations. Height 6 inches. June and July. Pkt. 10 cts., ¼oz. 50 cts.

AUBRIETIA (False Wall Cress)

Pretty, dwarf-growing rock plants, forming broad masses of silvery green foliage and sheets of flowers in spring and early summer.

Bougainvillei. Showy purple flowers. Pkt. 15 cts.
Deltoidea purpurea. Purple. Height 6 inches. Pkt. 15 cts.
Leichtlinii. Bright reddish crimson. Pkt. 15 cts.

BEGONIAS

Everblooming Bedding Varieties

The following varieties of *Begonia semperflorens* and *B. gracilis* take rank as bedding plants with geraniums and coleus, doing equally well in full sunlight, and surpassing both in positions partially or wholly in shade. They are of sturdy growth, growing about 1 foot high, and forming dense bushes which, from May until frost, are completely hidden with flowers. As pot-plants for winter flowering they are superb, being a mass of bloom throughout the entire year. Easily raised from seed, which should be started either indoors or in a hotbed.

	Pkt.
Gracilis, Primadonna. Carmine-rose; brown-tinted foliage	$0 25
Gracilis, Bonfire. Scarlet; metallic brown foliage	25
Gracilis luminosa. Brilliant dark scarlet; very effective	25
Semperflorens Erfordii. Rosy carmine; green foliage	15
Semperflorens, Triumph. Pure, glistening white	15
Semperflorens, Vernon. Bright orange-carmine; red foliage	15
Tuberous-rooted Single, Mixed. Excellent for indoor culture only	25
Tuberous-rooted Double, Mixed. The double form	25

BALLOON VINE (Love-in-a-Puff)

This rapid-growing annual climber succeeds best in a light soil and sunny situation. The flowers are white and the seed-vessels which resemble miniature balloons, are very interesting to children. Seed should be sown as soon as ground becomes warm, in an open situation. 8 feet. Pkt. 10 cts., ¼oz. 25 cts.

BAPTISIA (False Indigo)

Australis. Hardy perennial. Free-growing plant, with deep green cut foliage and lupine-like dark blue flowers in long racemes. 3 feet. June and July. Pkt. 10 cts., ¼oz. $1.50.

BARTONIA

Aurea. Hardy annual. Very bright golden flowers from July to September. Fine for cutting. 1 foot. Pkt. 10 cts., ¼oz. 50 cts.



Balloon Vine



CALLIOPSIS

(Flower natural size)

FEW of the annual flowers are of easier culture than the Calliopsis and the new forms which plant-breeders have developed in recent years have caused us to feature them in color. They are very showy and splendid subjects for garden decoration as well as for cutting.

Sow seed where intended to bloom in early spring; thin out to 6 inches apart. In order to get long stems, part of the foliage should be cut with flower, as in this way they make excellent subjects for table decoration. Cut flowers as soon as they open, as this prolongs the blooming season until late in the autumn. It is advisable to keep beds free of weeds and water copiously during hot weather.

1 **Golden Wave.** Rich golden yellow, chestnut-brown center. Height, 12 inches.
2 **Crimson King.** Splendid dwarf variety; rich velvety crimson-garnet. Height, 10 inches.
3 **Marmorata.** Rich golden yellow and wallflower-red. Height, 24 inches.
4 **Tiger Star.** Rich reddish brown, tigered with golden yellow. Height, 10 inches.
5 **Nigra Speciosa.** Strong grower; large, rich reddish brown flowers. Height, 24 inches.
6 **Bicolor Nana.** Dwarf; compact; clear yellow, small garnet eye. Height, 10 inches.

Each, pkt. 10 cts.; ¼oz. 50 cts.; oz. $1.50

COLLECTION
One pkt. each of above 6 varieties, 50 cts.; ¼ oz. each of above 6 varieties, $2.50



DOUBLE CORNFLOWERS

(Giant Bachelors' Buttons)

THIS old favorite of the garden has been much improved. The flowers are bigger and are double, and they are produced on long stems from stocky, sturdy plants. Grow them in any garden soil, but give this giant type plenty of room—6 inches or more from plant to plant. Double Cornflowers are as easily grown as the old Bluet. Sow the seeds where you wish them to bloom and remove the crowded plants so that those you leave stand the required distance apart. These double Cornflowers are extremely valuable for cut bloom.

1. DOUBLE BLUE (Bluebottle)
2. DOUBLE ROSE-PINK
3. DOUBLE MAUVE
4. DOUBLE WHITE
5. DOUBLE ROSY RED
6. DOUBLE MAROON

Each, pkt. 10 cts., ¼oz. 30 cts., oz. 75 cts.

COLLECTION. One pkt. each of above 6 colors, 50 cts.



Bellis perennis

BELLIS (English Daisy)

A favorite perennial, which will stand the winter if given the protection of a little litter. In bloom from early spring until well on in the summer. Easily raised from seed, which may be sown any time from spring until August. For best results, new plants should be raised from seed each year. The following are the finest double-flowering kinds, selected after careful test.

		Pkt.		Pkt.
Giant-flowering	**White**	$0 25	**Snowball.** White	$0 15
" "	**Pink**	25	**Longfellow.** Pink	15
" "	**Mixed**	25	**Double Red Quilled**	25

BEAN

Scarlet Runner. The well-known rapid-growing annual climber, with bright red flowers from July to September. Fruit is a most delicious vegetable. 8 feet. Pkt. 10 cts.

BOCCONIA (Plume Poppy; Tree Celandine)

Cordata. Effective, hardy perennial for single specimens or groups on lawns. Foliage glaucous green; bears freely spikes 2 to 3 feet long of cream-colored flowers; easily raised from seed. 5 feet. Pkt. 10 cts., ¼oz. 50 cts.

BOLTONIA (False Chamomile)

One of the showiest of our native hardy perennials, growing 4 to 6 feet high, with daisy-like flowers, borne in great numbers from July to September.

Asteroides. White. Pkt. 10 cts.
Latisquama. Lilac-pink. Pkt. 10 cts.

CALLIOPSIS

Showy and beautiful, free-flowering annuals and perennials, of the easiest culture, doing well in any sunny position, blooming all summer, and excellent for cutting and massing. Sow where they are to bloom, thinning out to stand 6 inches to 12 inches apart. By keeping the old flowers cut off the flowering season can be lengthened until late autumn.

ANNUAL VARIETIES

Bicolor nana. Dwarf, compact, clear yellow, small garnet eye. Height, 10 inches.
Crimson King. Splendid; dwarf; rich velvety crimson-garnet. Height, 10 inches.
Golden Ray. Dwarf, compact plants not over 9 inches high, densely covered with rich maroon flowers edged golden yellow, the petals twisted like the cactus dahlia.
Golden Wave. Rich golden yellow, chestnut-brown center. Height, 1 foot.
Marmorata. Tall grower; rich golden yellow and wallflower-red flowers. 2 feet.
Nigra speciosa. Strong grower; large flowers of rich reddish maroon. Height, 2 feet.
Tiger Star. Rich reddish brown, tigered with golden yellow.
Tinctoria. A very striking tall-growing variety. The flowers are a bright yellow and maroon, evenly divided in color combination. Height, 2 feet.
S. & W. Co.'s Mixture. A select mixture of tall varieties.

Each, pkt. 10 cts., ¼oz. 50 cts., oz. $1.50

COREOPSIS. PERENNIAL VARIETIES

The following two varieties of Perennial Calliopsis (Coreopsis) are usually sown in June and transplanted 1½ to 2 feet apart. Give slight winter covering. May be had in flower the first year if sown under glass in January.

Grandiflora. Deep golden yellow, cup-shaped flowers, on fine stems for cutting. Height 2 feet. All summer. Pkt. 10 cts., ¼oz. 40 cts.
Lanceolata grandiflora. Same as above except flower is lanced. Pkt. 10c., ¼oz. 75c.

BROWALLIA (Amethyst)

One of our favorite profuse-blooming bedding plants, covered with rich, beautiful, winged flowers during the summer and autumn months, supplying a very uncommon shade of intense blue; grows freely in any rich soil; blooms finely in the winter if the plants are lifted in autumn and cut back.

Speciosa major. A beautiful-flowering variety of the most brilliant ultramarine-blue—a rare color. Does finely outside in the border, or in hanging-baskets or vases, but is especially valuable as a pot-plant for winter and early spring flowering. Pkt. 25 cts.

BRACHYCOME (Swan River Daisy)

Free-flowering, dwarf-growing annuals, covered during the greater part of the summer with a profusion of pretty blue or white flowers, suitable for edgings, small beds or pot culture. Height, 9 inches.

Iberidifolia, Blue. Pkt. 10 cts.
Iberidifolia, White. Pkt. 10 cts.

CACALIA

Coccinea. (Tassel Flower; Flora's Paint-Brush.) A neat annual, of easy culture, with bright red, tassel-shaped flowers; blooms from June to September; fine for borders. Pkt. 10 cts., ¼oz. 60 cts.

CALENDULA

(Pot Marigold)

This is one of the best and showiest, free-flowering, hardy annuals, and produces a fine effect in beds or mixed borders.

	Pkt.	¼oz.
Golden King. Rich golden yellow	$0 25	$0 50
Lemon King. Rich lemon-yellow	25	50
Orange King. Deepest orange	25	50

COLLECTION: One pkt. each of the above 3 Kings, 50 cts.
¼oz. each of the 3 Kings, $1

Meteor. Large; double; yellow, each petal striped with orange	10	25
Prince of Orange. Similar to Meteor, but darker	10	25
The Ball. Splendid orange variety for forcing	25	75
Mixed. All colors mixed	10	25



Brachycome

CALCEOLARIA

The strains offered herewith are grown by a famous English seed-growing specialist and are the finest in existence. The S. & W. Co.'s Giant Strain is intended for conservatory growing; the Rugosa for outside bedding.

S. & W. Co.'s Giant Strain. Pkt. 50 cts.

Rugosa. Shrubby; for bedding. Pkt. 50 cts.

CAMPANULA or BLUEBELLS

PERENNIAL VARIETIES

These are among our best-known hardy perennials. The tall varieties are fine for cutting, while the dwarf sorts make excellent border plants. All have dainty bell-shaped flowers. Some of the varieties offered will flower the first season from seed if sown early.

	Pkt.	¼oz.
Carpatica. This variety is largely used for edging. Flowers of deep blue all summer. Height, about 6 inches	$0 15	$1 00
Carpatica alba. The white-flowered form of the above	15	1 00
Macrantha. Blue	10	2 50
Persicifolia grandiflora, Blue (Peach Bells). One of the finest of the hardy Bellflowers; grows 2 to 3 feet high, with large, blue flowers.	15	2 50
Persicifolia grandiflora alba. The white-flowered form of the above	15	3 00
Pyramidalis (Chimney Bellflower). Spikes 3 to 4 feet tall; erect, pyramidal flowers, large and of beautiful blue	15	1 00
Pyramidalis, White	15	1 00

CAMPANULA MEDIUM (Canterbury Bells)

These are strictly biennials, and require to be sown from June 1 to September 1; when strong enough, transplant to a distance of 6 inches apart; after frost has set in, protect with leaves and straw. They flower the following June, after which they die.

	Pkt.	¼oz.		Pkt.	¼oz.
Single White	$0 10	$0 50	**Single Striped**	$0 10	$0 50
Single Rose	10	50	**Single Mixed**	10	50
Single Blue	10	50	**Double Mixed**	15	1 00

CAMPANULA CALYCANTHEMA (Cup-and-Saucer)

These produce beautiful, large, single flowers resembling a cup and saucer; they require the same treatment as *Campanula Medium*.

	Pkt.	¼oz.		Pkt.	¼oz.
Blue	$0 15	$1 00	**Rose**	$0 15	$1 00
White	15	1 00	**Striped**	15	1 00
			Mixed	15	75



Campanula Medium

CANDYTUFT (Iberis)

The Candytuft is almost as fragrant as the sweet alyssum and very popular. Very useful as a bedding plant or for border work. Sow outdoors in April, where it is to bloom, and thin well when the plants grow about 1 inch. Sow also in July for fall blooming. Where grown in rows, best results for cut-flowers can be obtained only by spacing the plants at least a foot apart in the rows and 1½ feet between the rows.

Giant Hyacinth-flowered. Tall. A fine white annual variety, which, through selection, has been greatly improved. The flowers are of large size, borne in large trusses well above the foliage. Finest for cutting or for the border. Pkt. 15 cts., oz. $2.

Mixed Candytuft. All Colors. Pkt. 10 cts., oz. 50 cts.



S. & W. Co.'s Giant Hyacinth-flowered Candytuft

S. & W. CO.'S MAMMOTH-FLOWERED CANDYTUFT

Hardy Annuals

Large-flowered but uniformly dwarf types, suitable for edging, bedding, and for growth in the annual border.

Carmine White Lavender Crimson Flesh-Pink Rose-Cardinal

Each, pkt. 15c., ¼oz. 50c., oz. $1.50

COLLECTION: One pkt. each of above 6 colors, 75 cts.

PERENNIAL CANDYTUFT

A very early-flowering variety, largely used in the hardy border. Foliage exceedingly pleasing in color and very decorative.

Gibraltarica. White, shaded pink. Pkt. 15 cts., oz. $3.

Sempervirens. White flowers; evergreen. Pkt. 15 cts., oz. $2.50.

CANARY-BIRD FLOWER (*Tropaeolum canariense*)

A rapid-growing, tall climbing annual, producing hundreds of its pretty, fringed, bright yellow flowers. Pkt. 10 cts., ¼oz. 25 cts.

CARNATIONS

Carnations are general favorites for their delicious fragrance and richness of colors. They are indispensable, both for greenhouse culture in winter and for the garden in summer. The Giant Double King (see page 71), Marguerite, and Chabaud's types are the best for summer-flowering.

Chabaud's Everblooming. Raised by a famous French specialist. Blooms in five months after being sown, and continues to flower in the greatest profusion. Mixed colors. Pkt. 25 cts., ¼oz. $1.50.

GIANT MARGUERITE CARNATIONS

They begin flowering in July if sown early in the spring. The strain offered is of fine quality, producing on long, strong stems an abundance of large, double, beautifully fringed, highly scented flowers; with slight protection they will survive an ordinary winter.

Giant Pink Giant Crimson Giant Yellow
Giant White Giant Scarlet Giant Mixed

Each, pkt. 15 cts., ¼oz. $1, oz. $3

COLLECTION: One pkt. each of above 5 colors, 50 cts.

CASTOR-OIL PLANT (Ricinus)

The Ricinus are tall, stately growing plants of tropical appearance; their luxuriant foliage renders them exceedingly ornamental. Free-growing, tender annuals of easy cultivation. Half-hardy annuals.

	Pkt.	Oz.
Africanus. Very large green foliage	$0 10	$0 25
Zanzibarensis. New Giant Castor-Oil Plant from Africa	10	25
Borboniensis arboreus. Handsome green foliage. 15 feet	10	25
Communis (Castor-Oil Plant). Green foliage. 6 feet	10	25
Gibsonii. Dark, purplish-red foliage. 6 feet	10	25
Cambodgensis. Leaves bronzy maroon; red veins; stems black	10	25
Duchess of Edinburgh. Dark red foliage. 6 feet	10	25
Gibsonii mirabilis. Dwarf; compact; very fine	10	25
Sanguineus. Tricolor, red spotted; fruit in clusters. 10 feet	10	25
Mixed	lb. $2, oz. 25 cts.	10



CASTOR-OIL PLANT

CELOSIA

Celosia cristata (Cockscomb)

Free-blooming annuals, growing best in rather light soil, not too rich; make grand border plants and are attractive for pots. Seed can be sown under cover in early spring and planted out in May, or may be sown outdoors in May. If dwarf growth is desired, do not crowd.

Empress. Rich crimson. 1 foot. Pkt. 25 cts., ¼oz. $2.
Glasgow Prize. Dark crimson. 1 foot. Pkt. 25 cts., ¼oz. $2.
Dwarf Mixed. 1 foot. Pkt. 10 cts., ¼oz. $1.

Celosia plumosa (Feathered Cockscomb)

Make fine plants for large beds or groups, and the plumes or flowers can be cut and dried for winter bouquets. Should be treated same as Cockscomb described above.

Ostrich-plumed, Crimson. Pkt. 10 cts., ¼oz. 50 cts.
Ostrich-plumed, Yellow. Pkt. 10 cts., ¼oz. 50 cts.
Ostrich-plumed, Mixed. Pkt. 10 cts., ¼oz. 50 cts.



CELOSIA, PRIDE OF CASTLE GOULD

Celosia Thompsonii magnifica

Improved Strain of Feathered Cockscomb

Thompsonii magnifica is of pyramidal growth, often attaining the height of 3 feet, and producing graceful, feathery plumes of the most magnificent shades, ranging from the clearest yellow to the darkest blood-red.

Thompsonii magnifica, Crimson. Bright crimson. Pkt. 15 cts., ¼oz. $1.
Thompsonii magnifica, Yellow. Beautiful yellow. Pkt. 15 cts., ¼oz. $1.
Thompsonii magnifica, Mixed. Pkt. 10 cts., ¼oz. 75 cts.

Celosia, Pride of Castle Gould

An entirely distinct type of the *Celosia pyramidalis plumosa*, and surpasses by far anything thus far placed on the market. This strain has through constant culture and careful selection and hybridization proved its superiority to anything similar ever offered.

HABIT OF PLANTS.—Pyramidal, compact growth of from 2 to 3 feet, with immense, extra-fine feathered heads, gives the plant a most striking appearance.

COLOR.—The following distinct colors are among these hybrids: Blood-red, real carmine, golden yellow, salmon, deep scarlet, dark orange and wine-red; however, by variation there will be found many more shades; the self-coloring will be surprising.

This illustration is from a photograph taken on the estate of M. C. D. Borden, Oceanic, N. J. (William Turner, Supt.). The following is a description by William Turner: "Celosia Castle Gould is admirably adapted for growing along in pots for decorative purposes or for planting out in beds, provided the beds are situated to receive full benefit from the sun's rays. Castle Gould is a decided improvement over all other Celosias, both for richness of colors and the massive plumes this variety produces. Being a free, vigorous grower, it is not necessary to sow the seed for outdoor planting until say the middle of March. They would then be nice, vigorous plants in 3- or 3½-inch pots, ready for placing in the beds about the end of May. With a little care, they would be a mass of gorgeous plumes until killed down by frost." Per pkt., mixed shades, 25 cts., ⅛oz. $1, ¼oz. $1.50.

CENTAUREAS

There is, perhaps, no more popular annual than the Centaurea. Will grow well anywhere and as a cut-flower is much in demand.

Double Cornflowers (*Centaurea Cyanus*)

These are also known as Blue Bottle, Bachelor's Buttons, Ragged Sailor, Bluet, and sometimes referred to as Ragged Robin. As Ragged Robin is also a name given to Lychnis, we suggest patrons ordering by botanical name to avoid confusion. We offer a much improved strain of this beautiful flower in a better range of colors, with larger flowers. The seed may be sown outdoors in April, and several sowings will give a succession of bloom. For best results, thin out plants to stand 8 inches apart.

Blue **Rose-Pink** **White**
Maroon **Mauve** **Rosy Red**

Any of the above colors, pkt. 10 cts., ¼oz. 30 cts., oz. 75 cts.
COLLECTION: One pkt. each of above 6 colors, 50 cts.

	Pkt.	¼oz.
Double Mixed. A mixture of all the above colors	$0 10	$0 25
Single Mixed. A mixture of single-flowering Cornflowers, all colors	10	25

Giant Sweet Sultans (*Centaurea imperialis*)

This beautiful class is undoubtedly the finest of all the Sweet Sultans for cutting purposes. Beautiful, deliciously sweet-scented flowers are borne on long, strong stems and are particularly striking, lasting several days after cutting. We recommend sowing in succession every two weeks from May until July, thereby giving a continuous bloom from summer to fall.

Imperialis, White. Large and exquisitely sweet-scented.
Imperialis, Pink. Pink, with tinge in center.
Imperialis, Purple. Brilliant rosy purple.
Imperialis, Lilac. Beautiful lilac.
Imperialis, Red. New. Deep amaranth-red.
Imperialis, Yellow (*Suaveolens*). Bright yellow.
Imperialis, Mixed. A select Mixture of above colors.

Any of the above colors, or mixed, pkt. 15 cts., ¼oz. 50 cts.
COLLECTION: One pkt. each of above 6 colors, 50 cts.



Giant Sweet Sultans (Centaurea imperialis)



Double Cornflowers (Centaurea Cyanus)

White-leaved Centaureas

(Dusty Millers)

Extensively used for edging of beds or borders of the flower-garden. The glistening white, contrasted with the bright color of the coleus, salvia or red canna, is very striking.

	Pkt.	¼oz.
Candidissima. This hardy, rapid-growing annual is only grown for its foliage which is very lanced and silver coated. An excellent edging plant	$0 10	$0 75
Gymnocarpa (Dusty Miller). Leaves fern-like; a trifle taller than Candidissima	10	50

Various Centaureas

	Pkt.	
Americana. The stems, foliage, and flowers of this Cornflower are gigantic in size compared with the regular sorts. The flowers, which appear thistle-like, attain the size of 4 inches when fully expanded and are of a splendid, deep lavender color, making an excellent subject for garden decoration or cuttings. Like the Cyanus, it is easily flowered from seed sown outdoors; plants should be placed at least 1 foot apart. Height 3 feet	¼oz. 50 cts.	$0 15
Macrocephala. This is a hardy perennial variety with large, thistle-like, golden yellow flowers, useful for cutting and fine for the hardy border. Blooms during July and August. 3½ feet	¼oz. 50 cts.	10
Montana (Perennial Cornflower). Grows 2 feet high, bearing large, violet-blue flowers from July to September	¼oz. 50 cts.	10
Montana alba. Large, white form of the above	¼oz. 75 cts.	15



Annual Chrysanthemums

CHRYSANTHEMUMS

ANNUAL VARIETIES

We offer a choice selection of the best varieties of this showy hardy annual. They are splendid subjects for the border or for cutting. The plants average 2 feet in height, and bear their daisy-like flowers in great profusion on strong stems.

Beaconsfield. White, with a pink center.
Burridgeanum. White petals, zone of rich brownish red, inner zone yellow.
Eastern Star. Clear yellow petals with dark disc.
Evening Star. Yellow petals, dark disc.
Morning Star. Petals canary-yellow, with a halo of deeper yellow, disc darker.
Northern Star. Large, daisy-like flowers, 3 inches in diameter; pure white, fringed petals with canary-yellow zone around a dark brown eye.
The Sultan. Rich wallflower-red with a narrow yellow zone around the brown disc.

Each, pkt. 15 cts., 2 pkts. 25 cts.

COLLECTION: One pkt. each of above 7 varieties, 75 cts.

	Pkt.	¼ oz.
Golden Queen. Double; golden yellow	$0 15	$0 50
White Queen. Double; pure white	15	50
Single Annual Varieties Mixed. A choice mixture	10	50
Double Annual Varieties Mixed. Mixture of double varieties	10	50

PERENNIAL VARIETY (Shasta Daisy)

Chrysanthemum Leucanthemum, Alaska. A splendid hardy perennial variety, with flowers frequently 5 inches across, of the purest glistening white, with broad, overlapping petals 25 75

CATANANCHE

Bicolor. Hardy perennial with blue and white flowers. Height 3 feet. Pkt. 25 cts.
Cærulea. Blue. Height 3 feet. Pkt. 25 cts.

CERASTIUM

Tomentosum. Hardy perennial. A very pretty dwarf, white-leaved edging plant. bearing small white flowers. Pkt. 15 cts.

CHELONE (Turtlehead)

Beautiful hardy perennial; very decorative; fine for cutting; should be grown in every garden.

	Pkt.	¼ oz.
Barbata coccinea. Red. Summer. 3 feet	$0 10	$0 50
Barbata Torreyi. Coral-red. Summer. 3 feet	10	50
Lyoni. Hardy perennial with purplish red flowers. Height, 2 feet	25	

CLEOME (Spider Flower)

Gigantea. Annual. Singular-looking, rose-colored flowers; the stamens look like spiders' legs, and present a very attractive appearance. This plant is now used extensively in many of the public parks, planted among shrubbery, and is very effective. Sow seed outdoors in May and thin out to stand 2 feet apart. Height 3 feet. Pkt. 10 cts., ¼ oz. 50 cts.

CINERARIA

Seed should be sown from May to September where a succession is desired. When sown at this time, fine plants may be secured. The main point in the culture of Cinerarias is to secure as hardy a growth as possible with leaves of medium size. Seed may be transferred direct from seed-pans to thumb-pots. After planting, place in coldframe facing north, if possible. As pots become full of roots, shift to larger ones until flowering size is reached.

S. & W. Co.'s Giant-flowering Mixed. This strain of Prize Cineraria is grown for us by a famous English seed specialist. The flowers seldom measure less than 3 inches in diameter, comprising the following colors: White, rose, flesh, crimson, blue, violet, etc. The plants are of a very robust dwarf habit, which, combined with the mass of giant blooms, makes this strain exceedingly valuable. **Pkt. 50 cts.**

S. & W. Co.'s Giant Sky-Blue, Dark Blue, Flesh-Color, and White. Each, pkt. 50 cts.

Matador. A new large-flowering, deep scarlet; adds brilliance to a collection. **Pkt. 50 cts.**

S. & W. Co.'s Stellata. Delicate star-like blooms are borne in great profusion on long stems, giving this variety a double use, as it is excellent for cutting as well as decorative purposes; all shades.

Tall Mixed. Pkt. 50 cts. **Dwarf Mixed.** Pkt. 50 cts.



Cleome gigantea

CLARKIA ELEGANS

A mighty handsome annual, which should be far more widely known. It is of easy cultivation, graceful in habit of growth, and lends itself as well to bedding as for cutting. Flowers in long racemes which all open in water when cut.

	Pkt.	¼ oz.
Single Rose	$0 10	$0 30
Single White	10	30
Single Mixed	10	25

DOUBLE VARIETIES

We consider these varieties of double Clarkias a decided acquisition.

	Pkt.	¼ oz.
Salmon Queen. Salmon	$0 10	$0 50
Brilliant King. Crimson	15	50
Purple King. Purple	15	50
Scarlet King. Scarlet	15	50
White King. White	15	50
Double Mixed	15	40



Mammoth Tall White Cosmos

COSMOS

This is one of the most notable summer and fall flowers, the specialists' skill having added much to its beauty. Many professional gardeners sow their Cosmos late in the spring, as it has been demonstrated, particularly with the Late Mammoth-flowering Tall Cosmos, that early sowing frequently makes enormous, heavy-wooded plants which do not flower any earlier than if sown later.

We recommend the sowing of Cosmos about the first of May, outdoors in rows, covering the seed about ¼inch, and when the plants are about 3 inches high, thin out or transplant to not less than 2 feet apart. Any garden soil will grow Cosmos to perfection; frequent cultivation around the base of the plants will greatly benefit them.

Extra-Early Flowering Dwarf Cosmos

Frequently the amateur finds that the Cosmos of the Late-flowering Tall type, selected by him for growing in borders or beds with other annual flowers, is unsuitable because of it flowering late in the summer, and also growing to the height of 6 to 8 feet. We, therefore, take pleasure in offering this new Early-flowering Dwarf Cosmos, which, if sown outdoors about the first of May, will give an abundance of cut-flowers for the table or home decoration from July until cut down by frost.

This type of Cosmos grows about 4 feet high, and while the flowers are not quite so large as the Late Mammoth-flowering type offered on this page, they are admirably adapted to the use of the suburbanite whose garden-space is small. To those who desire the larger-flowering type, which flowers late, after most other flowers are past, we recommend our Late Mammoth-flowering Tall Cosmos.

	Pkt.	¼oz.	Oz.
Early-flowering, White	$0 10	$0 50	$1 50
" " **Pink**	10	50	1 50
" " **Crimson**	10	50	1 50
" " **Mixed**	10	50	1 50

Late Mammoth-Flowering Tall Cosmos

This type of Cosmos, which has been greatly improved over the old tall small-flowering varieties, flowers late in the summer—usually September in this latitude—and coming at this season of the year, when nearly everything in the garden has finished blooming, it is a very desirable addition.

These tall, graceful plants are most effective when planted in broad masses along background borders against evergreens or shrubs. The gigantic flowers, borne on long stems, and the feathery foliage lend themselves to graceful arrangements for bouquets.

	Pkt.	¼oz.	Oz.
Mammoth Tall, White	$0 10	$0 30	$1 00
" " **Pink**	10	30	1 00
" " **Crimson**	10	30	1 00
" " **Mixed**	10	30	1 00

Lady Lenox. This is the very latest development of this popular autumn flower, bearing gigantic flowers, the petals having a wide overlapping character and of splendid substance; its beautiful, deep rosy pink color and splendid form make this Cosmos one of the most widely grown. **Pkt. 10 cts., ¼oz. 50 cts., oz. $1.50.**

Lady Lenox, White. Similar to above, but white. Pkt. 15 cts., ¼oz. 50 cts., oz. $1.50.

New Double-Flowering Cosmos

Some years ago, when we first offered in our Novelties and Specialties this splendid new form of Cosmos, which was of Australian origin, we considered it a notable addition to this beautiful family of easily grown annuals for cutting. We are pleased to announce, however, that due to the painstaking effort on the part of an American grower, this strain has been further improved upon, in size of flower, greater degree of doubleness, and general vigor of the plant. We offer three distinct colors as well as a mixture of the three.

Double Pink. Beautiful rose-pink.
Double White. Pure glistening white.
Double Crimson. Rich rose-crimson.
Double Mixed. Mixture of the three.

Each, pkt. 20 cts., ¼oz. $1.50

COBÆA (Cup-and-Saucer Vine)

A climber of rapid growth, attaining a height of 30 to 50 feet during the season, valuable for covering trellises, arbors, trunks of trees, etc.; will cling to any rough surface. In sowing, place seeds **edgewise** and merely cover lightly with soil; to get early results, start the seed indoors in March or April; can also be sown out-of-doors in May.

Scandens. Large bell-shaped purple flowers. Pkt. 10c., ¼oz. 50c.
Scandens alba. Pure white. Pkt. 15 cts., ¼oz. 75 cts.

CONVOLVULUS

(Morning-Glory)

Dwarf Bedding Varieties. Mixed. Pkt. 10 cts., oz. 30 cts.
Tall or **Climbing Varieties.** Mixed. Pkt. 10 cts., oz. 30 cts.
See **Ipomœa** for other varieties of Morning-Glories.

CYNOGLOSSUM

(Chinese Forget-me-not; Hounds Tongue)

Amabile. Hardy annual. A highly perfumed plant of easy culture, suitable for bedding and yielding valuable cut bloom of deep blue color. Height 20 inches. Pkt. 25 cts., ¼oz. 75 cts.

CYCLAMEN (Giant-flowering)

The following varieties are American-grown. They have been developed from the best of Continental and European strains. They make very beautiful house-plants. Seed is usually sown in the autumn.

Fairy Queen. A very large, magnificent, frilled white, with a crimson eye. Pkt. $1, 100 seeds $5.

Pride of Cincinnati. A semi-double salmon; large and free-flowering. Pkt. $1, 100 seeds $5.

	Pkt.	100 seeds
Glory of Wandsbek. Light and dark shades of salmon.	$0 50	$3 50
Brilliant Red. Very large and fine	50	3 50
Christmas Cheer. Blood-red	50	3 50
Rosea superba. A very pretty shade of shell-pink. Large flower and excellent grower	50	3 50
Magnifica. Dark rose-pink; very fine	50	3 50
Victoria. White, tipped with pink, fringed edge	50	3 50
Daybreak. Delicate pink; very beautiful	50	3 50
Pure White. Very large	50	3 50
White, Pink Eye. Very large and fine	50	3 50
Lavender. Dark and light shades, very beautiful	50	3 50
Mixed. All varieties	50	3 50

CUPHEA (Cigar Plant)

Platycentra. Pretty, half-hardy perennial. Bears long tube-shaped scarlet flowers. Pkt. 15 cts., 2 pkts. 25 cts.

DELPHINIUM (Perennial Larkspur)

There is, perhaps, no better known hardy plant than the Delphinium. The beautiful flowers, borne on tall, stately spikes, are a gorgeous sight and a charm to the garden. Sow seeds in early spring in shallow boxes indoors or in a hotbed. When seedlings are about 1 inch high, transplant to flats 3 to 4 inches apart each way. About a week before planting out, remove to the open, taking care to protect them on cold days and nights; set out 6 inches apart in the garden. Plants treated thus usually flower the first season, during August. In the fall they may be lifted and set out in groups of colors, three or four plants at a distance of 3 feet apart, in the rear of hardy perennials, where they make a fitting background.

	Pkt.	⅛oz.
Chinense (Blue Butterfly). A distinct and neat variety, growing about 1½ feet high, with fine, feathery foliage, and producing freely spikes of large blossoms of intense gentian-blue	$0 10	$0 75
Album. The white-flowered form of the preceding	10	50
Barlowii. Very large, dark blue flowers; extra-fine	25	1 00
Belladonna (Everblooming Hardy Larkspur). One of the finest and most continuous-blooming hardy Larkspurs. Clear turquoise-blue flowers, unequaled for delicacy and beauty. 5 pkts. $1	25	¼oz. $1 50
Cardinale. A very beautiful cardinal-scarlet; plants grow about 1½ feet high	Pkt. $0 25	⅛oz. $1 00
Formosum. Large; rich dark blue, white center; borne on spikes 2 to 3 feet tall; one of the most popular varieties	25	1 00
Formosum cœlestinum. Beautiful sky-blue, white center; similar in habit to the above	25	1 50
Nudicaule. Dwarf compact growth, with spikes of bright scarlet flowers. Height, 1½ feet	25	

Gold Medal Hybrids. We especially invite the interest of our patrons in this wonderful improved type of Delphinium, as our grower, a noted specialist, has produced what we consider the finest strain of this—the peer of all the hardy perennials. The spikes frequently attain a height of 6 feet, and are symmetrical in form. The individual florets are large, of diverse formation, and the color ranges from pale lilac through all the beautiful shades of blue to pansy-violet. **Pkt. 25 cts., ⅛oz. $2.**



Delphinium (Gold Medal Hybrids)

DIANTHUS (Pinks)

In this large and greatly varied genus are some of our most beautiful and best-loved flowers, unsurpassed for color and fragrance. They are hardy biennials that bloom finely the first season, remaining green all winter and blooming the next year also, if lightly protected. Old plants flower the earliest, but as young ones give the largest, finest flowers, sowings are made every year. Seed may be sown in the open in early spring when the danger of frost is past and if the situation is open and the ground is well prepared, they will flower luxuriantly in a few weeks' time and continue until hard frost. For best results seedlings should be thinned out to have plants stand 6 inches apart. They average 1 foot in height and are splendid for borders and for cutting. The double-flowering varieties are quite as fine as carnations for cutting.



Double Annual Pinks

DOUBLE ANNUAL VARIETIES

	Pkt.	¼oz.
Chinensis fl.-pl. (China, or Indian Pink). Flowers are borne in clusters, very double and in a large range of bright colors	$0 10	$0 25
Diadematus fl.-pl. (Double Diadem Pink). Beautiful double flowers in various tints of lilac, crimson, purple; outer edges fringed	10	75
Fireball. New. Extra double brilliant dark scarlet; very beautiful	15	1 00
Heddewigii fl.-pl. (Double Japan Pink). Double mixed, color varying from richest crimson to most delicate rose	10	75
Laciniatus fl.-pl. (Double Fringed Pink). Large double flowers in a great variety of colors; edges fringed	10	75
Lucifer. Brilliant orange-scarlet, flowers measuring about 2 inches across; very dazzling and popular variety; nicely fringed	15	75
Salmon King. Brilliant salmon-rose	10	50
Snowball. Large; double; white; excellent for border or cutting	15	50
Violet Queen. A rich violet—rather unusual shade	10	75

SINGLE ANNUAL VARIETIES

Among these single sorts are many beautiful varieties, and the flowers often measure 2 to 3 inches in diameter. They are very effective for borders or beds.

	Pkt.	¼oz.
Crimson Belle. Rich crimson. Height, 1 foot	$0 10	$0 50
Eastern Queen. Delicately marbled rose and mauve flowers	10	50
Queen of Holland. Beautiful white	10	75
Laciniatus (Single Fringed Pink). Flowers fringed, in a great variety of colors	10	35
Salmon Queen. Beautiful fringed flowers of brilliant salmon color changing to old rose when fading	10	50
Vesuvius. Beautiful orange-scarlet flowers; striking in beds or borders.	10	50



Single Annual Pinks

S. & W. Co.'s Special Mixture of Annual Sorts. A grand collection of these ever-popular garden, or China Pinks. All large-flowering varieties, unrivaled for brilliancy and rich variety of color, and bloom in perfect succession during the whole summer and autumn. Mixed colors. **Pkt. 10 cts., ¼oz. 50 cts.**

COLLECTION OF ANNUAL SORTS: One pkt. each of 10 choice Dianthus, 5 named Double and 5 named Single sorts, for 75 cts.

HARDY GARDEN PINKS

These form low, bushy tufted plants, above which are produced, on long stems, the beautiful fringed and fragrant flowers so valued in "old-fashioned" gardens. For permanent beds and borders these Pinks are unrivaled.

	Pkt.
Barbatus (Sweet William). See page 113.	
Deltoides. Rosy purple. Invaluable for the rock-garden. Height 6 inches	$0 25
Latifolius atrococcineus fl.-pl. Hardy perennial. A hybrid between the China Pink and Sweet William. The heads of brilliant red flowers are quite double. Will flower first season from seed	25
Plumarius, Double Mixed. Fringed, fragrant flowers of white, crimson, or purple shades, spotted and variegated. Height, 1 foot	10
Plumarius, Single Mixed. Large, fragrant flowers of beautiful colors and finely fringed	10
Scotch, or Florists' Pinks. Excellent perennial garden plants, about 1 foot high when in bloom. They are vigorous, very hardy, and flower profusely during spring and early summer. The flowers are very large, very double, beautifully fringed, and emit a grateful clover-like perfume. Mixed colors	25



S. & W. CO.'S MAMMOTH-FLOWERED CANDYTUFT

NO ANNUAL is of easier cultivation, and few give so effective a display with so little effort. Sow in the spring as soon as the land is workable, and thin out so that the individual plants stand 5 inches or more apart; replant in other parts of the garden the plants you remove. Candytuft will grow anywhere and will bloom continuously if the matured flowers are kept gathered so as to prevent the formation of seed.

Our Mammoth-flowered is an improved type, with extra-large blooms, but of uniformly dwarf habit. We offer in a wide range of color.

1. CARMINE	4. WHITE
2. FLESH-PINK	5. LAVENDER
3. ROSE-CARDINAL	6. CRIMSON

Each, pkt. 15 cts., ¼oz. 50 cts., oz. $1.50

COLLECTION. Pkt. each of above 6 colors, 75c.



S. & W. Co.'s Gold Medal Delphiniums

(Hardy Larkspurs)

IN A superb mixture of hybrids—various shades and combinations of blue, lavender, mauve. Strong stately plants and immense flowers.

SOW THIS YEAR TO HAVE A GARDEN FULL OF DELPHINIUMS NEXT YEAR AND SUBSEQUENT YEARS

Of all hardy perennials, the Delphinium is by all odds the most striking and the most popular. This wonderful strain is superior in every way to any we have hitherto offered.

Sow seeds in May, June, or July in the garden, and if the situation is dry and open, shield from the midday sun—a position in the vegetable-garden, where the young plants are partly shaded by other plants, is excellent; so is a cold-frame with "lights" of open lattice or thin brush instead of glass. Be patient, for the seeds are sometimes slow to germinate. Thin the young Delphiniums to stand 8 inches apart; keep them hoed and free of weeds until the autumn, when they may be planted out in their permanent positions in the open border. They will give you a wealth of beautiful flowers every season.

Pkt. 25 cts., ⅛oz. $2

CYPRESS VINE

(Ipomœa Quamoclit)

One of the most popular of annual climbing plants with very delicate fern-like foliage, and masses of beautiful, small, star-shaped flowers. It is advisable to soak seed in water for a few hours before planting out in order to hasten the germination. Frequently attains a height of 15 feet; sow outdoors in May. **We offer it in three colors, also a mixture.**

Crimson White Rose Mixed

Each, pkt. 10 cts., ¼oz. 25 cts.

DAHLIA

Half-hardy perennial. The seed we offer has been saved from a superb collection of the finest named varieties.

Giant Peony-flowered, Mixed. Saved from finest blooms..... Pkt. $0 50

Cactus, Mixed. Saved from a choice collection. 50

Double-flowering Exhibition Strain, Mixed. Saved from fine Show sorts..... 50

DATURA

Cornucopia (Trumpet Flower). A grand annual plant. The flowers average 8 inches long by 5 inches across; French white inside, purple outside; delightfully fragrant. Started early, will flower from early summer until fall. Pkt. 10 cts.

DIASCIA

Barberæ. An old and not so frequently grown annual which we have listed in an endeavor to give it a wider acquaintance with flower-lovers. The plants average 9 to 12 inches in height and the dainty spurred flowers are freely produced in sprays on wiry stems. The flowers are ⅞inch in diameter and of a soft salmon-rose. **Pkt. 25 cts., 5 pkts. $1, ⅛oz. $1.50.**



Digitalis Gloxiniæflora



Dimorphotheca (African Golden Daisy)

DICTAMNUS (Gas Plant)

Albus (*Fraxinella alba*). Hardy perennial, producing white flowers during June and July. Height 2½ feet. Pkt. 15 cts.

DIDISCUS (Queen Anne's Lace Flower)

Cærulea. This pretty annual, which was cultivated extensively in the gardens of our grandparents, has been brought to prominence again. Queen Anne's Lace Flower grows into an upright, very much-branched plant about 2 feet high. Each branch ends in an umbel of sky-blue flowers, which spread out in an umbrella-like fashion, crowning each shoot with a beautiful and delicate head of flowers. It is easily grown and a splendid cut-flower, lasting unusually long in water. Seed may be sown outdoors in a well-prepared seed-bed when trees are out in leaf; water copiously during hot weather. **Pkt. 25 cts., ¼oz. $1.**

DIGITALIS (Foxglove)

This ornamental hardy plant is used extensively for naturalizing in shrubbery borders and along the edges of woods. It grows well under almost all conditions, giving a wealth of bloom during June and July.

Gloxiniæflora. This is an improved strain of the ordinary Foxglove, *D. purpurea*, with handsome spotted Gloxinia-like flowers on long spikes.

Alba. White ground. **Rosea.** Rose ground. **Mixed.**
Purpurea. Purple ground. **Lutea.** Yellow ground.

Each, pkt. 10 cts., ¼oz. 50 cts.

Giant Shirley. (See Novelties, page 62.) Pkt. 25 cts., ¼oz. $1.50.

Monstrosa (Mammoth Foxglove). Long spikes surmounted by one enormous flower; all colors mixed. Pkt. 15 cts., ¼oz. $1.

DIMORPHOTHECA (African Golden Daisy)

The plants are of branching habit, growing about 15 inches high and the flowers are a rich golden orange with a dark center. Being an annual, it is easily cultivated and will give a magnificent display all summer. Pkt. ¼oz.

Aurantiaca. Golden orange..... $0 10 $0 50

Aurantiaca hybrida. Beautiful new hybrids of the African Golden Daisy and similar in habit to the parent. The flowers are equally as large, but vary in color from the purest white through the various shades of yellow and orange to rich salmon shades, many being zoned with several of these colors around the black disc..... 10 50

DOLICHOS (Hyacinth Bean)

A rapid-growing annual climber, flowering freely in erect racemes, followed by ornamental seed-pods. Fine for covering arbors, trellises, etc. Sow the seed in the garden in beds where it is to remain. Height 10 feet.

	Pkt.	Oz.
Daylight. This grand Hyacinth Bean comes from Japan. In our trial-grounds, plants from seed sown late in May had, by the middle of July, attained a height of over 10 feet, and were covered with spikes of snow-white, pea-shaped blossoms from then until late fall. The heart-shaped foliage is bright green and not affected by insect pests	$0 10	$0 50
Darkness. Identical in every way with the above, except in color, which is a rich purple-violet	10	50
Lablab, Mixed	10	40



Dolichos (Hyacinth Bean)

ECHINOPS (Globe Thistle)

Ritro. Striking hardy perennial plants, with handsome, silvery, thistle-like foliage and fine steel-blue flowers in round heads, which can be used for cutting. Excellent for the back of the hardy border. Height 3 to 5 feet. Pkt. 10 cts., ¼oz. 25 cts.

ECHINOCYSTIS (Wild Cucumber Vine)

Lobata. One of the quickest-growing annual vines we know of; splendid for covering trellises, old trees, fences, etc. Clean, bright green foliage and sprays of white flowers during July and August. Pkt. 10 cts., oz. 50 cts.

ERYNGIUM (Sea Holly)

Amethystinum. Handsome, ornamental hardy plants, growing 2 to 3 feet high, with finely cut, spiny foliage and beautiful, thistle-like heads of amethystine blue; fine for winter bouquets. Pkt. 15 cts., ⅛oz. $1.

Planum. Steel-blue flowers. Height 2 feet. Pkt. 25 cts.

EUPATORIUM (Thoroughwort)

Strong-growing, hardy perennials, well suited for naturalizing and deserving of a place in every hardy border. They will grow and thrive in any location.

Fraseri. A very pretty dwarf variety, producing clusters of snow-white flowers, fine for cutting and bouquets. 1½ feet. Pkt. 15 cts., ⅛oz. $1.25.

Purpureum. A striking variety, growing 6 to 8 feet high, with heads of purple-blue, daisy-like flowers from August to October. Pkt. 25 cts., ⅛oz. $1.50.

ESCHSCHOLTZIA (California Poppy)

Profuse-blooming annuals, for beds, edging or masses. Bloom from early summer to frost. We offer below a choice list of what we consider the finest varieties in commerce.



Euphorbia variegata. See page 91

	Pkt.	¼oz.
***Carmine King.** Beautiful shade of carmine-rose	$0 10	$0 50
Fringed Yellow. A deep pure yellow, the petals deeply cut and fringed	10	50
***Geisha.** Rich golden orange inside, orange-scarlet outside—very striking contrast	10	50
***Golden West.** Bright yellow, dark orange at the base of the petals	10	50
Lovely. A lovely tone of bright rose-pink suffused with salmon. The blooms have a satiny appearance which adds very much to the effect	20	75
Purple Glow. Undoubtedly the greatest advance that has been made in Eschscholtzias. It is a bright reddish purple, the darkest shade that has been obtained so far	20	1 50
***Scarlet Beauty.** Petals deep scarlet inside, lighter on outside	10	50
Tango. Bronzy red overlaid with terra cotta	10	50
***Vesuvius.** Rich coppery red which glistens in the sunlight	10	50
S. & W. Co.'s Choice Mixture. We have prepared a mixture of named sorts covering all the beautiful colors in this pretty annual	10	50

COLLECTION OF CALIFORNIA POPPIES: Pkt. each of varieties marked (*) above, with the Santa Barbara Poppy, 6 varieties in all, 50 cts.; ¼oz. each of these varieties, $2.50.



Four o'Clocks

EUPHORBIA

Strong-growing annuals, suitable for beds of tall-growing plants or mixed borders. The flowers are inconspicuous; the foliage, however, is exceedingly ornamental.

Variegata (Snow-on-the-Mountain). Attractive foliage, veined and margined with white. 2 feet. Pkt. 10 cts., ¼oz. 25 cts.

Heterophylla (Annual Poinsettia). An annual which resembles in color the beautiful hothouse poinsettia. The plants grow 2 to 3 feet high, of branching, bush-like form, with smooth, glossy green leaves which about the middle of the summer, turn to a beautiful orange-scarlet, presenting a striking and brilliant appearance. Pkt. 15 cts., ⅛oz. 50 cts.

EVERLASTING FLOWERS

We give a complete list of the best varieties of this splendid class of flowers on page 121.

FEVERFEW. See Matricaria. **FORGET-ME-NOT.** See Myosotis.

FOUR O'CLOCK (Mirabilis)

Well-known, free-flowering plants. Called Four o'Clock because they open their blossoms at that hour in the afternoon; also called Marvel of Peru. Hardy annuals. 2 feet.

Fine Mixed. All colors. Pkt. 10 cts., oz. 50 cts.

GAILLARDIA (Blanket Flower)

ANNUAL VARIETIES

Very showy annuals of easy culture. The flowers are borne freely and are brilliant in tone. Excellent for borders and do best if sown in May. Flower in great profusion from July to November.

	Pkt.	¼oz.
Ambyodon. Rich blood-red. 2 feet	$0 10	$0 50
Aurea. Rich yellow. 2 feet	10	50
Picta Lorenziana. A mixture of various colors. The flowers are double and excellent in form	10	50
Picta, Indian Chief. A new variety. Fine bronzy red. 2 pkts. 25 cts.	15	
The Bride. This is a pure white selection from the Lorenziana type; very double and, like the variety mentioned above, is excellent for cutting. ⅛oz. 50 cts.	15	

PERENNIAL VARIETIES

The perennial varieties of this family are grown in most hardy borders. They thrive in any position or soil, require little or no protection, and take care of themselves. If sown early, they begin flowering in July, and continue to be a mass of bloom until cut down by frost; fine for cutting. Height 2 feet.

Kermesina splendens. Center rich crimson, narrow canary-yellow border. Pkt. 15 cts.

Grandiflora compacta. A compact variety forming bushy plants 12 to 15 inches high, and bearing its long-stemmed flowers well above the foliage. In coloring the flowers are as brilliant and varied as the tall-growing sorts. Pkt. 15 cts., 2 pkts. 25 cts.

Grandiflora, Copper-Red. A striking new color in this popular perennial. Pkt. 15 cts., 2 pkts. 25 cts.

S. & W. Co.'s Hybrids. This strain of Hybrid Gaillardia has been obtained from a specialist who has developed a splendid type, covering only the best varieties. The flowers are as large as sunflowers. **Pkt. 25 cts., ⅛oz. 75 cts.**

GEUM (Avens)

Atrosanguineum fl.-pl. Beautiful hardy perennial, bearing profusely large, showy, double, dark-crimson flowers all through the summer; an elegant flower for bouquets... Pkt. ¼oz. 50 cts. $0 10

Mrs. Bradshaw. Large double brilliant orange-scarlet; in flower throughout the entire summer 15

GLOXINIA

S. & W. Co.'s Large Flowered. These very remarkable Gloxinias have, by careful selection, now been so far fixed that 40 per cent of the seedlings come true. The ground-color of the large, erect, and widely opened flowers is a velvety purple-crimson, with a rosy white throat. On the often seven-lobed corolla appear more or less sharply defined bands, spots and stripes, characteristic of this new class, the latter mostly of a violet hue. **Pkt. 50 cts.**



Types of Gaillardia



Globe Amaranth (Gomphrena)

GLOBE AMARANTH

(Gomphrena)

Popularly known as "Bachelor's Button." A first-rate bedding plant. The flowers resemble clover heads and can be dried and used in winter bouquets. Cornflowers and a number of other flowers are also known as Bachelor's Buttons, and in ordering it is well to order by name to prevent errors. We offer them in separate colors and in a mixture as well.

Rose **White** **Purple** **Mixed**

Each, pkt. 10 cts., oz. 75 cts.

GODETIA

This beautiful hardy annual deserves more extensive cultivation. The plants bloom profusely and are splendid for bedding. We also recommend that those with greenhouse facilities try growing these as a pot-plant for winter decoration. We offer the single-flowering sorts, which grow about 1 foot high, and the double varieties, which attain the height of 2 feet.

	Pkt.	¼oz.
Duchess of Albany. Satiny white	$0 10	$0 50
Lady Satin Rose. Brilliant carmine	10	50
Princess of Wales. Beautiful pink	10	50
Sunset. Dwarf; compact; rosy carmine	10	50
Tall Double Pink. Beautiful salmon-pink	25	75
Tall Double Rose. Deep rose	25	75
Tall Double Carmine. Carmine	25	75
Tall Double Crimson. Crimson	25	75
Tall Double Mauve. Mauve	25	75
Tall Double Mixed	25	75

GNAPHALIUM

(Edelweiss)

Leontopodium. Seed should be sown early and kept cool and moist. Pkt. 25 cts.

GOURDS

A vigorous class of plants, with curiously formed and often strangely colored fruits. The foliage is abundant and often curious.

	Pkt.
Mock Orange	$0 10
Apple-shaped	10
Dish-Cloth or **Chinese Luffa**	10
Dipper	10
Hercules' Club	10
Mixed. All sorts	10

GREVILLEA (Silk Oak)

Robusta. Very graceful foliage; highly valued as a decorative plant for the table, and, when large, for tropical effects. 3 to 5 feet. Pkt. 15 cts.

GYPSOPHILA (Baby's Breath)

Pretty, free-flowering, elegant plants, succeeding in any garden soil. Their misty white panicles of bloom are largely used for mixing with other cut-flowers.

	Pkt.	Oz.
Elegans grandiflora alba. This is an improved, large-flowering, pure white form of the annual Baby's Breath; of free, easy growth, and grown by the acre in the suburbs of Paris and London for use with other cut-flowers. Several sowings should be made during the season to keep up a supply	$0 10	$0 50
Elegans grandiflora rosea. Delicate rose	10	50
Muralis. An annual sort which forms mounds of green 8 to 10 inches high, thickly studded with little pink flowers from early in the season till frost; fine for edging ¼oz. 50 cts.	10	1 50
Paniculata. White flowers; fine for bouquets; one of the favorite hardy perennials; blooms first year if sown early. 2 feet ¼oz. 30 cts.	10	1 00
Paniculata fl.-pl. The new double-flowering Baby's Breath, and one of the finest hardy plants for cutting. ⅛ oz. $1	25	

For other varieties of Gypsophila, see page 92



Godetia

GYPSOPHILA, continued

	Pkt.	¼oz.
Acutifolia. A strong-growing hardy perennial sort, 3 to 4 feet high, with large panicles of small white flowers in July	$0 10	$0 50
Repens. Perennial. Rose-colored flowers. 6 inches	10	60
Repens alba. Dwarf; white. A hardy perennial sort for rock-work	10	1 00

HELENIUM (Sneezewort)

Hardy perennial; blooms in late summer; useful in the hardy border; very free-blooming. Height 5 feet.

	Pkt.
Autumnale superbum. Golden yellow	$0 15
Riverton Beauty. Lemon-yellow	25
Riverton Gem. Wallflower-red	25

HELIANTHUS (Sunflower)

Much-prized annuals and perennials for cutting; the tall sorts are largely used in the perennial border; the dwarf sorts make good edgings to the tall.

ANNUAL SUNFLOWERS

The annual sorts of Sunflowers are indispensable for cutting. Sown in a sunny location in April or early May, they come to bloom early in the summer and flower continuously until cut down by frost.

	Pkt.	¼oz.
Cut-and-Come-Again, Mixed. A mixture of the tall-growing, large-flowering types for cutting	$0 10	$0 50
Cucumerifolius (Miniature Sunflower). Small, single, rich yellow flowers; an abundant bloomer. 4 feet	10	30



Sunflowers



Gypsophila elegans grandiflora alba. See page 92

	Pkt.	¼oz.
Cucumerifolius, Stella. Different from the above by its larger and better-formed flowers of purest golden yellow with black center	$0 10	$0 35
Cucumerifolius, Orion. A new variety of the Stella. The petals are twisted like a cactus dahlia	10	35
Cucumerifolius, Perkeo. A charming dwarf variety of the Miniature Sunflower. The plants form compact bushes about 12 inches high by 14 inches through. There are many positions, such as the front of borders or beds of plants of medium height, where this can be used to good advantage. flowering as it does from the end of June until cut down by hard frost.	10	35
Cucumerifolius fl.-pl. The double-flowering form of the popular Miniature Sunflower. The flowers, while double, are quite free and graceful; of a bright golden yellow	15	50
Dwarf Double (Globe of Gold). Dwarf; double; yellow. 4 feet	10	35
Globosus fistulosus (Globe or Dahlia Sunflower). Flowers large, double and of a rich saffron. 6 feet	10	30
Gigantic Russian. The large-flowering Russian variety. Oz. 10 cts., ¼lb. 25 cts., ½lb. 40 cts., lb. 75 cts.		

HARDY SUNFLOWER

Perennial Sorts, Mixed. A mixture of the best perennial varieties carefully selected. Pkt. 25 cts.

HELICHRYSUM (Straw Flower). See **Everlastings,** page 121

HELIOPSIS

Pitcheriana (Orange Sunflower). Hardy perennial. A valuable plant for the border, thriving in any good soil. Flowers cup-shaped, deep yellow, on long, stiff stems for cutting. 3 to 4 feet. June to October. Pkt. 10 cts., ¼oz. 75 cts.

HEUCHERA (Alum Root or Coral Bells)

Most desirable, dwarf, compact, bushy plants of easy culture, growing 1½ to 2 feet high, and bearing graceful spikes of flowers. Excellent hardy plant for the border or rock-garden. Splendid for cutting. Blooms during July and August.

Sanguinea. Coral-red. **Sanguinea alba.** White.

Sanguinea gracillima rosea. Carmine-rose.

Any of the above, pkt. 15 cts., 2 pkts. 25 cts.



Heliotrope, Lemoine's Giant

HELIOTROPE

A half-hardy perennial, flowering during the whole season. Its delightful perfume makes it a most desirable bouquet flower. A splendid bedding plant, or can be trained as a greenhouse climber. Seed started indoors in the spring will make fine plants for summer blooming. Can also be sown outdoors in May.

	Pkt.	¼oz.
Lemoine's Giant. Of robust growth and produces heads of flowers double the size of the old sorts; mixed colors	$0 10	$1 00
Queen Marguerite. Large; dark blue	15	1 50
White Lady. Largest white	10	1 00
Mixed. All colors of the regular type	10	75

HIBISCUS (Marshmallow)

Showy, ornamental plants, for mixed beds or shrubbery borders. Hardy perennial, but will bloom first year from seed if sown early.

	Pkt.
Moscheutos (Swamp Rose Mallow). Flowers 6 inches in diameter; of light rosy red, with dark center	$0 10
Golden Bowl. Giant yellow, cup-shaped flowers, from 6 to 9 inches in diameter; of rich cream, with velvety maroon center. The plants commence to bloom early and continue until cut down by frost	10
Crimson Eye. Fine for borders and groups; color white, with crimson center; flowers very large	10
Mallow Marvels, Mixed. Flowers of enormous size in splendid shades of Crimson, Pink, and White, mixed	25

HELIANTHEMUM (Sun Rose)

Hardy perennials suitable for the rock-garden. Height 6 inches.

Aureum. Yellow.
Ball of Fire. Red.
Bride. White.
Rosy Gem. Pink.

Each, pkt. 25 cts.

HOLLYHOCKS

One of the most popular of hardy garden plants. The beautiful color effects produced by the planting of these flowers, combined with their dignified and stately appearance, render them indispensable for either the old-fashioned garden or the well-planned herbaceous border. As a background for other flowers or planting among shrubbery, they are without an equal. As the plants are affected with rust occasionally, we recommend frequent spraying in springtime with "Semesan."

CHATER'S SUPERB DOUBLE

Chamois	**Newport Pink**	**Scarlet**
Deep Rose	**Pure White**	**Sulphur-Yellow**
Maroon	**Salmon-Rose**	**Superb Mixed**

Each, pkt. 25 cts., 5 pkts. $1

S. & W. Co.'s Double Mixed. This is an excellent strain. The selection has been made with great care from the strongest plants and brightest colors. **Pkt. 15 cts., ⅛oz. 75 cts.**

S. & W. Co.'s Single Mixed. Pkt. 10 cts., ⅛oz. 50 cts.

HUMULUS

(Japan Hop)

A rapid summer climber which in three to four weeks' time attains a height of 20 to 30 feet, resembling the common Hop, but, being an annual, attains full perfection the first season. The foliage is luxuriant, making a dense covering. It is one of the best plants for covering verandas, trellises, etc., producing grateful shade and being very ornamental. Heat, drought and insects do not trouble it.

	Pkt.	¼oz.	½oz.	Oz.
Japonicus	$0 10	$0 30	$0 50	$0 75
Variegatus. Variegated variety	10	50	75	1 25

HONESTY (Moonwort)

Hardy biennial, admired for its silvery seed-pouches, which are used for house ornaments; beautiful and curious purple flowers. Sow seed in open in May and protect over winter. 2 feet. **Pkt. 10 cts., ¼oz. 50 cts.**



Chater's Superb Double Hollyhocks

HUNNEMANNIA

(Giant Yellow Santa Barbara Tulip Poppy; Bush Eschscholtzia)

Fumariæfolia. This is by far the best of the Poppy family for cutting, remaining in good condition for several days. Seed sown early in May will, by the middle of July, produce plants covered with their large, buttercup-yellow, Poppy-like blossoms, and never out of flower until hard frost. The plants grow about 2 feet high, are quite bushy, with beautiful, feathery, glaucous foliage. Pkt. 10 cts., ¼oz. 50 cts., oz. $1.50.

IBERIS. See Candytuft.

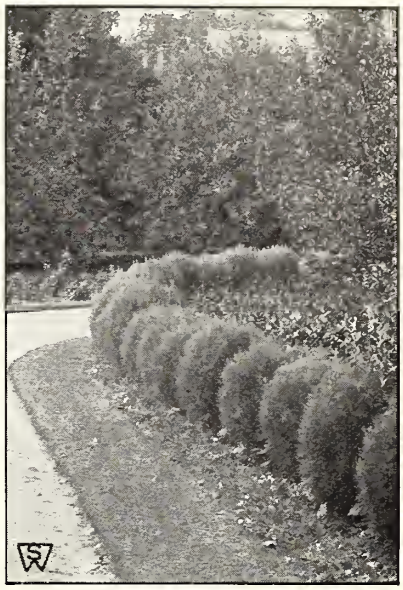
IMPATIENS

Sultani. One of the most beautiful of decorative plants. It thrives in stove heat, greenhouse and in open border during the summer. The flowers are of a brilliant rosy scarlet, 1½ inches in diameter. Mixed. Pkt. 25 cts.

Impatiens Holstii. A very handsome plant from East Africa, forming bushes 1½ to 2 feet in height, with brilliant scarlet flowers, which measure from 1¼ to 1½ inches across. It is an elegant pot-plant, also valuable for bedding out in partial shade. **Pkt. 25 cts.**

INCARVILLEA

Delavayi. Hardy perennial. Rather new; originated in northern China, and is one of the prettiest perennials known. It produces divided pale green leaves about 2 feet in length, much like acanthus. The flowers are borne on long, stout stems, tube-shaped, and appear almost like gloxinias. Color bright rose. 2½ feet. June to August. Pkt. 50 cts.



Kochia trichophylla

IPOMŒA

Climbers of rapid growth, with beautiful and varied flowers. For covering walls, trellises, arbors, or stumps of trees they are invaluable. It is well to soak the seed in warm water over night to assist in germination.

Bona-nox (Evening-Glory). Rosy lilac flowers, expanding in the evening; of very rapid growth. Pkt. 10 cts., oz. 75 cts.

Grandiflora mexicana alba (Moonflower). At night and during dull days the plants are covered with an abundance of large, pure white, fragrant flowers, 5 to 6 inches in diameter. It grows rapidly and will cover a large surface. Pkt. 10 cts., oz. 75 cts.

Hederacea grandiflora superba. Sky-blue, margined white. Pkt. 10 cts., oz. 75 cts.

Hederacea grandiflora superba alba. White. Pkt. 10c., oz. 75c.

Leari. Dark blue. Pkt. 10 cts., oz. $1.50.

Rubra cærulea (Heavenly Blue). Immense flowers of bright sky blue, very beautiful. Pkt. 15 cts., 2 pkts. 25 cts.



Imperial Japanese Morning-Glory (Ipomœa)

Setosa (Brazilian Morning-Glory). Flowers of pleasing rose-color, borne very freely, in large clusters, from August to frost. As a quick-growing vine it has no equal, covering an enormous space in a short time. Pkt. 10 cts., oz. $1.

Mixed Imperial Japanese (Emperor Morning-Glory). These are beyond question the handsomest of all Morning-Glories. Of the easiest culture; can be sown in the open ground in a sunny situation when the weather has become warm and settled. They soon cover a large area, and even before flowering are decidedly interesting on account of the varied forms of the foliage and their markings. The flowers are of gigantic size and their colorings beyond description. The self or solid colors range fron snow-white to black-purple, with all the possible intermediate shades; there is also an endless number having flowers spotted, marbled, striped, flaked, splashed, etc. Pkt. 10 cts., oz. 50 cts.

For other varieties of Ipomœas, see Cypress Vine and Convolvulus

Kochia (Summer Cypress; Mexican Firebush)

Trichophylla. A pretty half-hardy annual, 2 to 3 feet in height, which grows into a perfect pyramidal-shaped cypress bush, with small, feathery, light green foliage, deepening as the season advances until it becomes a lovely crimson hue about September. Excellent for edging or hedging. Pkt. 10 cts., ¼oz. 25 cts.

KUDZU VINE. See **Pueraria.**

LANTANA

One of the most desirable half-hardy greenhouse or bedding plants, which bloom constantly. The flowers are borne in Verbena-like heads of orange, white, rose, etc. Mixed colors, pkt. 10 cts., ¼oz. 50 cts.

LATHYRUS (Everlasting or Hardy Sweet Pea)

Hardy climbers, growing 6 to 8 feet high when trained on a trellis. The flowers are borne in large clusters. They are peculiarly adapted to rough places, to scramble over rocks and bushes; splendid cut-flower.

White. Pkt. 10 cts.
Delicata. Rosy flesh-color. Pkt. 10 cts.
Red. Pkt. 10 cts.
Mixed Colors. Pkt. 10 cts.

LAVENDER

Lavandula vera. Well-known, hardy perennial; sweet-scented; should be grown extensively in mixed borders. Height 3 feet. Pkt. 10 cts., ¼oz. 50 cts.

ANNUAL LARKSPURS

These are among the best-known garden flowers, and in recent years a vast improvement has been effected by careful selection in size and color of the blossoms and the general habit of the plant. Seeds sown in the open ground before the close of April will produce flowering plants by the beginning of July, and give a continuous succession of flowers from then until frost, a record that is not surpassed by any other annual. They make handsome beds or lines, and their free, graceful habit and bright colors are very effective when interspersed in the old-fashioned flower or shrubbery border.

DOUBLE STOCK-FLOWERED

This is the finest variety of this very popular annual, with beautiful double flowers. Height 2½ to 3 feet.

Snowstorm. Pure white.
Stella. Sky-blue.
Loveliness. Shell-pink.
Attraction. Bright rose.
King of the Blues. Dark blue.
Violet Queen. Violet.
Lilac Perfection. Lilac.
Tricolor. Variegated.
Exquisite. Soft pink; very beautiful.

Defiance. A decided improvement over the Newport Scarlet. This Larkspur is of the same habit as our Double Stock-flowered; the plants, however, are a trifle taller in growth.

Each, pkt. 15 cts., ¼oz. 50 cts., oz. $1.50

COLLECTION: One pkt. each of the above 10 varieties $1

Tall Stock-flowered, Mixed. A select mixture of our famous Stock-flowered strain. Pkt. 10 cts., oz. 75 cts.
Dwarf Stock-flowered, Mixed. Finest double flowers. Mixed. 1½ to 2 feet. Pkt. 10 cts., oz. 75 cts.

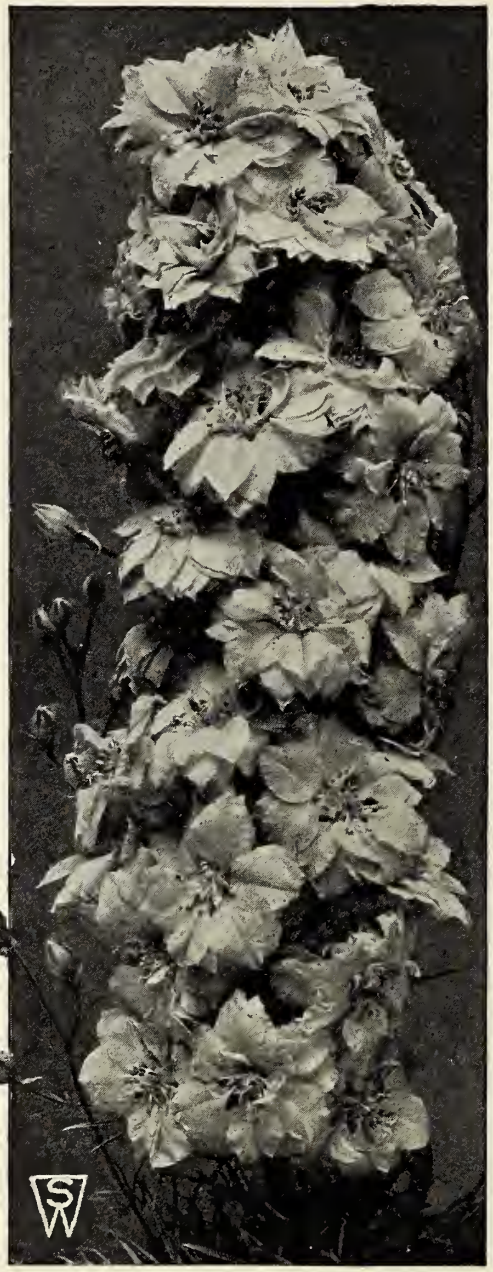
S. & W. Co.'s Emperor

This grand type of Annual Larkspurs grows about 2 feet high and is of candelabra habit. When planted in borders of the flower-garden the plants will prove most effective.

Apple-Blossom
Brilliant Rose
Black-Blue
Azure-Blue
Violet
White, Striped
Dark Red
Rose
Tricolor
Light Blue

Pkt. 10 cts., ¼oz. 30 cts., oz. $1

COLLECTION: One pkt. each of the above 10 varieties, 75 cts.



S. & W. Co.'s Double Stock-flowered Larkspur

LEPTOSYNE

Stillmani. Rich golden yellow flowers on long stems; will bloom in six weeks. Pkt. 15 cts.

LINARIA

Cymbalaria (Kenilworth Ivy). Lavender and purple. A charming, neat, hardy perennial trailing plant, suitable for baskets, vases, pots, or rockeries. Pkt. 15 cts., 2 pkts. 25 cts.
Macedonica speciosa. Yellow. Height 3 feet. Pkt. 25 cts.

LINUM

Flax

Grandiflorum rubrum (Scarlet Flax). One of the most effective and showy hardy annuals; bedding plants, of long duration, having fine foliage and delicate stems, with brilliant scarlet-crimson flowers. Height 1 foot. Pkt. 10 cts., ¼oz. 25 cts.
Perenne. Bright blue. Height 1½ feet. Pkt. 10 cts., ¼oz. 35 cts.
Perenne album. White. Height 1 foot. Pkt. 10 cts.

LOBELIA

These bloom very quickly from seed and flower all through the season. For beds, edgings, baskets, and pots there is nothing prettier. Sow outdoors in early spring, where the plants are to grow, and thin moderately; or transplant several inches apart in rich, open soil. Some stimulant given when they are in bloom greatly improves the flowers. Almost all are also good winter conservatory plants of trailing habit. The perennial or tall varieties are handsome, showy plants, and will be found quite effective for backgrounds and grouping.

Barnard's Perpetual. Deep blue with white eye; trailing. Pkt. 10 cts., ¼oz. $1.
Crystal Palace Compacta. Rich deep blue; dark foliage. The finest variety for bedding. Pkt. 10 cts., ¼oz. $2.
Emperor William. A very compact variety with sky-blue flowers. Pkt. 10 cts., ¼oz. $1.50.
Lindleyana. Rose, with white eye; trailing. Pkt. 10 cts., ¼oz. $1.
Pumila splendens. Dark blue, with clear white eye; compact. Pkt. 10 cts., ¼oz. $1.50.
Pumila alba. Pure white. Pkt. 10 cts., ¼oz. $1.50.
Speciosa. Dark blue; dark foliage; extra fine; trailing. Pkt. 10 cts., ¼oz. $1.

LAVATERA

Annual Mallow

Trimestris grandiflora rosea. A very beautiful and showy annual, growing about 2 feet high and covered during the entire summer with large, cup-shaped salmon-pink flowers; for beds or borders they are very effective. Sow seed in May where they are to bloom and later thin the plants out to 1 foot apart. Pkt. 10c., ¼oz. 50c.

LIATRIS

Blazing Star; Gay Feather

A very attractive, native, hardy perennial. The purple and rosy purple flowers are borne on long spikes. Excellent for cutting. 3 to 4 feet. July to September. Mixed varieties, pkt. 10 cts.

Lobelia tenuior compacta, Improved

This handsome annual has hitherto hardly received the attention it deserves. The imported strain, which we now offer, grows 8 to 9 inches high, is of erect, elegant habit, and thickly covered with large, dark blue flowers having a distinct white eye. As it remains a long time in bloom, it is a very effective plant for summer bedding. **Pkt. 25 cts., 5 pkts. $1.**

HARDY VARIETIES

Tall-growing, hardy perennials with long spikes of brilliant flowers, unrivaled for permanent beds and borders. 2 to 4 feet.

	Pkt.	¼oz.
Cardinalis (Cardinal Flower). Scarlet	$0 25	$3 00
Cardinalis lugdunensis. Rose	50	
Queen Victoria. Brilliant scarlet	50	



ANNUAL LARKSPURS

FEW annuals are more satisfactory for garden display or for cutting than the Larkspur. Plant-breeders have produced wonderful improvements in size and color and the varieties we are offering are a distinct advance in habit of growth, size of spikes and color to any strains we have tried in comparison. Seed sown in the open ground in April will produce plants which will bloom continuously from July to frost. They are splendid for beds or borders, their graceful habit and bright colors making them very effective.

TEN FINE VARIETIES

Attraction. Bright rose.
Defiance. Scarlet.
Exquisite. Soft pink.
King of the Blues. Dark blue.
Lilac Perfection. Lilac.
Loveliness. Shell-pink.
Snowstorm. Pure white.
Stella. Sky-blue.
Tricolor. Variegated.
Violet Queen. Violet.

Each, pkt. 15 cts., ¼oz. 50 cts., oz. $1.50

COLLECTION. Pkt. each of above 10 varieties, $1; ¼oz. each of above 10 varieties, $4

African and French Marigold

AFRICAN GIANT SHOW LEMON

AFRICAN GIANT SHOW ORANGE

DWARF SINGLE FRENCH LITTLE BROWNIE

WE have illustrated three of the most popular varieties of this splendid annual in color. The African Giant Show Lemon and Orange Marigold are the exact size obtained from plants grown from our strain of seed this year. For a number of years we have offered this strain as being superior to anything we had previously been able to obtain.

Seed is saved only from plants of proved types. We are making a special offer of the two African varieties, Giant Show Lemon and Orange, the plants of which attain the height of 3 feet, and four varieties of the Dwarf French Marigolds, which are very effective when used for beds or borders, forming dense bushes about 1 foot high. Seed of all these varieties may be sown, when danger of frost is past, where they are to bloom; thin out African varieties to stand 1½ feet apart, the French sorts 6 inches apart.

SIX FINE VARIETIES

Dwarf French, Little Brownie. Single. Golden yellow, large spot of velvety crimson.
Dwarf French, Golden Ball. Double. Pure golden yellow.
Dwarf French, Lemon Ball. Double. Pure lemon-yellow.
Dwarf French Mahogany. Double. Rich velvety mahogany-brown.
Giant Show Lemon. Large; double; lemon-yellow.
Giant Show Orange. Large; double; orange-yellow.

Each, pkt. 25 cts., ¼oz. $1.00

COLLECTION: One pkt. each of above 6 varieties . $1.00
¼oz. each of above 6 varieties . . 5.00

LUPINUS (Lupine)

This very interesting class of plants is of easy culture and produces beautiful leaves and pea-shaped flowers. It should be more generally cultivated. The following annual varieties may be sown out in the open in May and as plants grow, thin out, leaving about 1 foot between the plants.

ANNUAL VARIETIES

Rich Blue **White** **Rose** **Mixed**

Each, pkt. 10 cts., oz. 50 cts.

PERENNIAL VARIETIES

	Pkt.	Oz.
Polyphyllus, White	$0 10	$0 75
Polyphyllus, Blue	10	75
Polyphyllus, Mixed	10	75

Lupinus polyphyllus roseus. The plants of this beautiful half-hardy perennial are of robust, branching habit. An excellent subject for the herbaceous border, flowers being produced in long spikes of soft rose-pink. **Pkt. 15 cts., ¼oz. 35 cts., oz. $1.**

Lupinus polyphyllus, Excelsior. This fine strain of perennial Lupines will be found a grand addition to the hardy perennial section, embracing, as it does, a splendid assortment of colors, ranging from very pale to deep rose, and various shades of lavender, mauve and blues. A really fine mixture. **Pkt. 15 cts., 2 pkts. 25 cts.**

Downer's Hybrids. A special strain of hardy perennial Lupines. The flowers are large, with an exceptionally fine range of color. **Pkt. 50 cts.**

LYCHNIS

Handsome hardy perennial plants of easy culture, for massing in beds or borders, blooming first year from seed if sown early.

	Pkt.
Alpina. Splendid dwarf variety for rock-gardens, growing but 6 inches high. Rose-colored blooms in June	$0 25
Arkwrighti Hybrids. New improved strain, growing 2½ feet high. Mixed colors	25
Chalcedonica. Scarlet. 2 feet	10
Chalcedonica, Salmon Queen. Salmon. 2 feet	25
Haageana. Orange-scarlet. 2 feet	10
Viscaria. Rose. 1½ feet	10
Viscaria splendens. Scarlet. 1½ feet	10

MARIGOLD

The African and French Marigolds are old favorite free-flowering annuals of easy culture; both are extremely effective. The former have uniformly large, yellow or orange-colored flowers, and are well adapted for large beds or mixed borders; the latter are dwarfer in growth, with beautifully striped flowers, and are better suited for bedding purposes and for pot culture. They succeed best in a light soil, with full exposure to the sun. A vase or bowl of any of the rich yellow sorts in combination with a few blue larkspurs or cornflowers is very striking.

DOUBLE AFRICAN

Giant Show Lemon. This highly meritorious strain of the African Marigold is grown specially for us by a specialist in Europe who selects only the finest blooms and plants of unusually good constitution for seeding purposes. Height 2½ feet. **Pkt. 25 cts., ¼oz. $1.**

Giant Show Orange. The darker form of the preceding variety. Height 2½ feet. **Pkt. 25 cts., ¼oz. $1.**

Eldorado. Flowers very large, imbricated, and extremely double, in all shades of yellow. Pkt. 10 cts., ¼oz. 40 cts.
Lemon Quilled. Deep, double, lemon-yellow flowers, daintily quilled. Pkt. 10 cts., ¼oz. 50 cts.
Orange Quilled. Similar to the above but orange-yellow. Pkt. 10 cts., ¼oz. 50c.
Giant Show Mixture. Yellow and orange shades. Pkt. 25 cts., ¼oz. $1.

DWARF FRENCH MARIGOLDS

Few annuals are as effective as the French Marigold, or bloom for as long a period. They form compact bushes 1 foot high, excellent for borders or beds.

Brunea. Double, quilled flowers of rich brown with a narrow thread-like edge of yellow.
Gold-striped. Double; golden yellow flowers, each petal striped brownish red.
Gold-edged Brown. Double golden yellow flowers, narrow margin of velvety brown.
Golden Ball. Double, pure golden yellow.
Legion of Honor (Little Brownie). A charming single-flowering Marigold forming dense, compact bushes about 9 inches high. They begin to bloom in June and continue until frost. The flowers are golden yellow marked with a large blotch of velvety crimson at the base of each petal.
Lemon Ball. Double lemon-yellow flowers.
Mahogany. Double, rich velvety mahogany-brown blooms.

Each, pkt. 25 cts., ¼oz. $1



Lupinus polyphyllus roseus

LITHOSPERMUM

Heavenly Blue. Hardy rock-garden perennial with blue flowers. Height 6 inches. Pkt. 25 cts.

LYTHRUM (Loosestrife)

Salicaria roseum superbum. Striking hardy perennial with rose-colored flowers from July to September. Height 3 feet. Pkt. 15 cts.
Virgatum. Rosy purple. Height 3 feet. Pkt. 25 cts.

MALVA

	Pkt.	¼oz.	Oz.
Alcea (Hollyhock Mallow). Pink.	$0 10	$0 50	$1 50
Moschata	10	50	1 50
Moschata flore-albo	10	50	1 50

MATTHIOLA (Evening-scented Stock)

Bicornis. This old-fashioned annual has no beauty to recommend it, the flowers being a dull purplish lilac, but it is well worth growing for the entrancing fragrance which it emits during the evening. 1 ft. Pkt. 10 cts., ¼oz. 50 cts.

MAURANDIA

Rapid-growing, half-hardy perennial climbers that can be treated as annuals. Fine for garden or greenhouse; bloom all summer in hanging-baskets and vases or on trellises. 10 feet.

	Pkt.	¼oz.
Barclayana. Blue	$0 25	$3 00
Barclayana alba. White	25	4 00

MATRICARIA (Feverfew)

Grandiflora fl.-pl. eximia. Half-hardy perennial, which should be treated as an annual. Double, pure white flowers are borne on slender stems 15 inches high, which are excellent for cutting. Pkt. 10 cts., ¼oz. 50 cts., oz. $2.

Golden Ball. Compact-growing variety with golden yellow flowers. Excellent for bedding. 1 foot. Pkt. 25 cts., ¼oz. $1.50.

MESEMBRYANTHEMUM

Crystallinum (Ice Plant). Dwarf, trailing annual plants; flowers white. Prized for its singular icy foliage. Pkt. 10 cts.

MIGNONETTE (Reseda)

Well-known little hardy annual plants, with sweet-scented flowers, at home everywhere, either in the greenhouse, garden or sitting-room.

S. & W. Co.'s Triumph. One of the choicest varieties for winter forcing. In type similar to Allen's Defiance, except that spikes are more compact and the individual florets are much larger in size. Seed of this grand variety is grown in our greenhouses, and is saved from the best spikes. **Pkt. 50 cts.**

Allen's Defiance. This gorgeous Mignonette has qualities heretofore unknown in large-flowering varieties, being deliciously fragrant. When grown under favorable conditions and with proper care, its spikes will be from 12 to 15 inches long. The individual florets are of remarkable size and stand out boldly, forming a graceful as well as compact spike. Its remarkable strength is accompanied by extraordinary keeping qualities; the spikes have been kept in a vase three weeks after cutting, retaining their grace and fragrance until every bud opened. Pkt. 10 cts., ¼oz. 50 cts.

Improved Large-flowering. Pkt. 10 cts., ¼oz. 25 cts.

Golden Queen. Yellow-tinted flowers. Pkt. 10 cts., ¼oz. 25 cts.

Miles' Spiral. Very fine. Pkt. 10 cts., ¼oz. 25 cts.

Machet. A dwarf French variety, with broad spikes of very fragrant red flowers; one of the best varieties for either garden or pot culture. Pkt. 10 cts., ¼oz. 50 cts.

Machet, Ruby. A fine new Machet Mignonette, with coppery scarlet flowers. Pkt. 10 cts., ¼oz. 50 cts.

Odorata maxima, Goliath. Bears very large flowers, the center spikes being often 8 inches long. The plant grows in candelabra form and produces fiery red flowers on firm, upright stalks. Pkt. 10 cts., ¼oz. 50 cts.

MIMOSA (Sensitive Plant)

Pudica. A very curious plant. The leaves instantly close up when touched. Tender annual ..... Pkt. $0 10

MIMULUS (Musk Plant)

Moschatus. The plants of Mimulus are beautiful and tender-looking, with almost transparent branches. They luxuriate in damp, shady situations; musk-scented. Tender annual. 1 foot 10

Splendid Mixed 10



Matricaria (Feverfew)



S. & W. Co.'s Triumph Mignonette

MONARDA (Bee Balm, Bergamot)

Didyma. Well-known hardy perennial, growing 3 feet high, and producing crimson flowers during July, August, and September. Pkt. 25 cts.

MOMORDICA

(Balsam Apple; Balsam Pear)

Luxuriant annual climbers, with large leaves, making dense shade. The flowers are followed by ornamental, large fruits of orange or copper color, which burst and expose an interior of red, which is highly effective. 15 to 20 feet.

Balsamina (Balsam Apple). Orange fruits. Pkt. 10 cts., oz. 75 cts.

Charantia (Balsam Pear). Coppery scarlet fruits. Pkt. 10 cts., oz. 75 cts.

MUSA (Abyssinian Banana Tree)

Ensete. A foliage plant of magnificent proportions; for subtropical massing, or as single specimens it is strikingly effective. Seeds sown early in the house will produce plants 10 to 12 feet high the first season. Pkt. 25 cts.



Myosotis, Ruth Fischer (Forget-me-not)

MYOSOTIS (Forget-me-not)

Few spring flowers are more admired than the lovely Forget-me-not, which is especially effective for mass planting. It is perennial and hardy if given slight protection through the winter. Seed may be sown any time from spring until midsummer. The Alpestris varieties and Dissitiflora come into bloom in April, with the spring-flowering bulbs, etc. The Palustris sorts do not bloom till May, but continue till fall.

	Pkt.	¼oz.
Alpestris, Royal Blue. Rich indigo-blue flowers. The finest and most effective dark blue variety; grows about 9 inches high	$0 10	$0 75
Alpestris robusta grandiflora. A strong, sturdy grower attaining a height of about 10 inches with good heads of clear Forget-me-nots blue flowers	10	75
Alpestris, Victoria. A favorite variety with fine heads of clear azure-blue flowers; plants bushy and compact. Makes a fine edging for beds	15	1 50
Alpestris, Mixed. A select mixture of the above	10	50
Dissitiflora. Of dwarf, compact habit with sprays of large, exquisite blue flowers, especially adapted for beds of late-flowering tulips, etc.	15	2 00
Palustris semperflorens. An ever-blooming variety beginning to flower in May and continuing until autumn. Large, clear blue flowers in pretty sprays	15	2 00
Ruth Fischer. One of the finest and largest-flowered Forget-me-nots yet sent out, producing flowers up to ½inch in diameter, of true Forget-me-not-blue. Plants of strong, vigorous growth, of exceptional value for pot culture and spring bedding....5 pkts. $1..	25	4 00
Isolde Krotz. A large-flowered Myosotis. Under favorable conditions, the individual blossoms are nearly an inch in diameter. Excellent both for greenhouse use and for growth in the open garden	50	

NICOTIANA

Affinis. An annual with sweet-scented, pure white, star-shaped flowers, 3 inches across, blooming continually. 2 to 3 feet. Pkt. 10 cts., ¼oz. 25 cts.

Giant Red-flowered. Magnificent annual of tropical effect, large, luxuriant leaves and immense clusters of rich crimson flowers. 5 feet. Pkt. 10 cts.

Sanderæ Hybrids. A splendid new type in a great variety of colors. Pkt. 10 cts., ¼oz. 50 cts.

NIGELLA

	Pkt.	¼oz.
Damascena, Double Mixed (Love-in-a-Mist). Pretty garden annuals with feathery green foliage, in which large, double, charming blue or white flowers are set. 1 to 2 feet	$0 10	$0 30
Miss Jekyll. A lovely variety with cornflower-blue blossoms; splendid for cutting. Hardy annual. About 2 feet	10	50

NEMESIA

We are pleased to offer a splendid strain of this beautiful half-hardy annual, principally the large-flowered varieties and one of the dwarf, compact sorts.

S. & W. Co.'s Orange. Rich orange.
S. & W. Co.'s Rose. Rich rose.
S. & W. Co.'s Scarlet. Scarlet.
S. & W. Co.'s Mixed. Rich mixture of all the lovely colors that come in this class of plants.
S. & W. Co.'s Hybrid Blue Gem. A dwarf variety, very suitable for borders.

Each, pkt. 25 cts., 5 pkts. $1.

NEMOPHILA

Splendid trailing annuals for garden decoration; bright-colored flowers, in shades of blue, white, and violet. 1 foot.

Finest Mixed. Pkt. 10 cts.

NEPETA (Ground Ivy)

Mussini. Hardy perennial with blue flowers in May and June. Height 1 foot. Pkt. 25 cts.

ŒNOTHERA

	Pkt.	¼oz.
Fraseri (Evening Primrose). Hardy perennial border plants of value. Beautiful yellow flowers. July to October. 1½ feet	$0 25	$1 50
Lamarckiana. Hardy perennial. Enormous yellow flowers. July to October. 3 feet	10	50
Fruticosa Youngi. Yellow. Height 18 inches	25	
Missouriensis. Yellow. Height 12 inches	25	
Speciosa. White. Height 18 inches	25	



Nigella, Miss Jekyll

Stumpp & Walter Co.'s Superb Nasturtiums

Few garden annuals respond with as little care as the Nasturtium. For ease of culture, duration of bloom, brilliancy of coloring and general excellence, they are unexcelled. All they need is a moderately good soil, in a well-drained, sunny position, and from within a few weeks from the time they are sown until hard frost comes there is an endless profusion of their gorgeous blossoms. The varieties offered below were selected, after exhaustive trials, from a very large number of sorts as being the best and most distinct.

NEW GIANT-FLOWERING

We have arranged with a grower, who has made growing Nasturtiums a specialty, to grow this Giant-flowering strain for us. The plants are strong and vigorous, with very large, bright green leaves, measuring from 5 to 8 inches across. The flowers, which are very numerous, measure 3 inches in diameter, and are borne on long stems well above the foliage. They are exquisitely formed, with overlapping, crinkled petals. They are produced in great numbers and have a most striking effect. Their fine color, long stems, great size and esthetic form make them valuable for cutting. We can offer it only in selected mixtures of both the Dwarf Bedding and the Tall Climbing kinds.

Giant Tall, Mixed. Pkt. 15 cts., oz. 25 cts., ¼lb. 75 cts., lb. $2.
Giant Dwarf, Mixed. Pkt. 15 cts., oz. 25 cts., ¼lb. 75 cts., lb. $2.



S. & W. Co.'s Giant-flowering Nasturtiums

TOM THUMB DWARF OR BEDDING

Aurora. Salmon-rose.
Beauty. Light scarlet, mottled yellow.
Brilliant. Rich scarlet.
Chameleon. Various colors on one plant.
Crystal Palace Gem. Sulphur, maroon-blotches.
Empress of India. Brilliant crimson; dark foliage.
King Theodore. Deep crimson-maroon; dark foliage.
King of Tom Thumbs. Dark scarlet; dark foliage.
Lady Bird. Orange-yellow, spotted red.
Luteum. Pure, light yellow.
Pearl. Pure white.
Ruby King. Light ruby-red.

Price of any of the above named Dwarf sorts, pkt. 10 cts., oz. 20 cts., ¼lb. 60 cts.

Special Collections: **1 pkt. each of 6 of these varieties, 50 cts.** **1 pkt. each of 12 of these varieties, $1.**

Dwarf, Mixed. A mixture of above-named sorts. Pkt. 10 cts., oz. 15 cts., ¼lb. 50 cts.

Dwarf, Ivy-leaved. Beautiful, dark green, ivy-like foliage, composing into an effective setting for the lovely flowers of various colors. **Mixed Colors. Pkt. 15 cts., oz. 25 cts., ¼lb. 75 cts.**

Dwarf, Variegated-leaved. These comparatively new varieties are equally thrifty and robust in growth and produce freely as beautiful flowers in various colors as the plain green-leaved Nasturtiums, with the added merit of ornamental foliage, which renders them beautiful objects even out of flower. We offer in a mixture of best colors. **Pkt. 15 cts., oz. 25 cts., ¼lb. 75 cts.**

TALL OR CLIMBING VARIETIES

Elegant and luxuriant climbers for verandas, trellises, etc. May be used to cover unsightly railings and to trail over rough ground with fine effect. The seed-pods can be gathered while green and tender for pickling; 6 to 10 feet.

Chameleon. Differently rich-colored flowers on the same plant.
Crimson. Rich and velvety.
Dunnett's Orange. Rich golden orange, garnet blotches.
King Theodore. Deep crimson-maroon, dark foliage.
Pearl. Creamy white.
Prince Henry. Cream, spotted and tipped scarlet.
Rose. A lovely shade of ruby-rose.
Scarlet. Glowing vermilion.
Yellow. Pure yellow. Pkt. 10 cts., oz. 20 cts., ¼lb. 60 cts.
Tall Mixed. A mixture of the above-named sorts. Pkt. 10 cts., oz. 15 cts., ¼lb. 50 cts.
Jupiter. Magnificent flowers of a brilliant golden yellow. Pkt. 10 cts., oz. 20 cts., ¼lb. 75 cts.
Moonlight. Immense, creamy white flowers. Pkt. 10 cts., oz. 20 cts., ¼lb. 75 cts.
Sunlight. Pure, rich butter-yellow; frequently measuring 3 inches across. Pkt. 10 cts., oz. 20 cts., ¼lb. 75 cts.

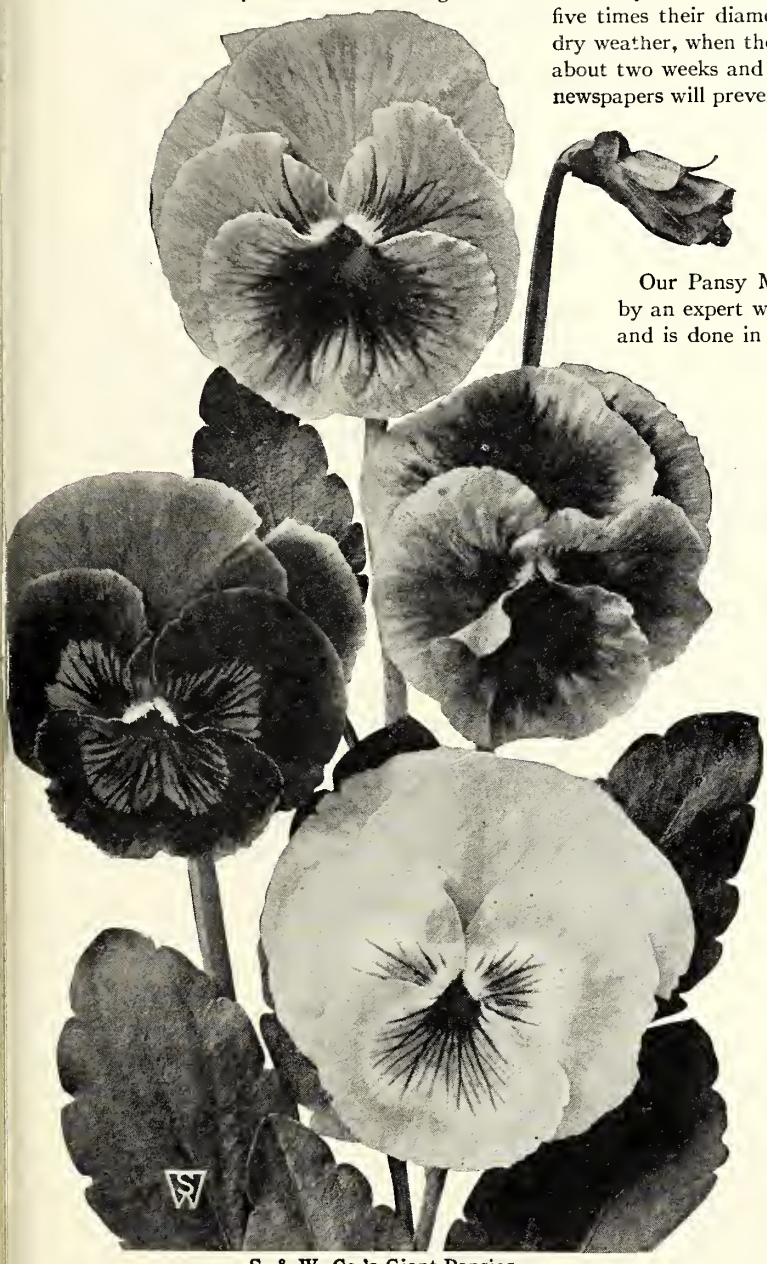
Special Collections: **1 pkt. each of 6 named varieties, 50 cts.** **1 pkt. each of 12 named varieties, $1.**

Tall, Ivy-leaved. Similar in type to the Dwarf Ivy-leaved in Tall varieties. **Mixed Colors. Pkt. 15 cts., oz. 25 cts., ¼lb. 75 cts.**

Tall, Variegated-leaved. Similar in type to the Dwarf Variegated-leaved, in Tall-growing sorts. **Mixed Colors. Pkt. 15 cts., oz. 25 cts., ¼lb. 75 cts.**

STUMPP & WALTER CO.'S GIANT PANSIES

This very popular annual needs little description. Good results may be obtained from sowing seed in April in a light, cool, but well-moistened soil, enriched with a slight amount of barnyard manure or fine ground bone. Sow seed in drills, covering them five times their diameter, and firm soil. Water once a day, except in very dry weather, when they may be watered twice a day. Seed will germinate in about two weeks and should not be allowed to dry out. A small covering of newspapers will prevent drying out. When plants are large enough to handle, transplant to a distance of 1 foot apart. Where greenhouse and coldframe facilities are at hand, sow in July or August and protect plants during winter.



S. & W. Co.'s Giant Pansies

Pansies in Mixture

Our Pansy Mixtures are prepared in our Flower Seed Department by an expert who has a thorough knowledge of the finest sorts extant, and is done in a very careful manner. Our Pansies have been grown throughout the United States, by leading florists, many of whom have repeated their order every year, thereby giving their unqualified indorsement to our famous strain.

S. & W. Co.'s Exhibition Strain.

This mixture of Giant Pansies has been prepared of the finest varieties grown; blooms of gigantic size, splendid texture; the plants of robust constitution hold their majestic blooms well above the foliage. Every conceivable color and combination of colors has been included. Pkt. 50 cts., ¼oz. $3.50, oz. $10.

Non Plus Ultra. A mixture of Pansies designed for the critical buyer who desires his beds to look of uniform quality, giving every conceivable color and combination of colors that exists in this highly meritorious flower. Pkt. 25 cts., ¼oz. $2, oz. $7.50.

Masterpiece (**Frilled Pansy**). A remarkable type, each petal being conspicuously curled or waved. The color range is quite extensive, the rich, dark, velvety shades predominating. Pkt. 25 cts., ¼oz. $2, oz. $7.50.

Cassier's Giant. A grand mixture of the finest blotched varieties; very large in size and rich in coloring. Pkt. 25 cts., ¼oz. $2, oz. $7.50.

Mme. Perret. A new and beautiful strain, originated with a French specialist; flowers of large size, borne very freely in a great diversity of colors, especially rich in red and wine shades. Pkt. 20 cts., ¼oz. $2, oz. $7.50.

S. & W. Co.'s Special Mixed. Pkt. 10 cts., ¼oz. $1, oz. $3.50.

Finest English Mixed. Pkt. 10 cts., ¼oz. 75 cts., oz. $2.50.

Giant Pansies in Separate Colors

	Pkt.	¼oz.	Oz.
Giant Adonis. Soft lavender-blue	$0 15	$1 50	$5 00
Giant Azure-Blue	15	1 50	5 00
Giant Dark Blue. Deep blue	15	1 50	5 00
Giant Fire King. Mahogany and gold	15	1 25	4 00
Giant King of the Blacks. Black	15	1 50	5 00
Giant Lord Beaconsfield. Violet-blue	$0 15	$1 50	$5 00
Giant Purple	15	1 50	5 00
Giant Snow-White	15	1 25	4 00
Giant White. Dark eye	15	1 50	5 00
Giant Pure Golden Yellow	15	1 50	5 00
Giant Yellow. Dark eye	15	1 50	5 00

PETUNIA

The Petunia cannot be equaled by any plant for outdoor decoration. They will flower the first season, even if sown in the open ground but usually not before June. These sown in the house or hotbed in April will bloom in June and be larger and finer plants. Half-hardy annual.

S. & W. Co.'s Giant-flowering Petunias. The demand for a mixture comprising the best representative types of single-flowering Petunias has been so significant that we have by careful selection and elimination prepared a special mixture. Where a mixture of the giant single fringed and plain-edged varieties are desired, as well as an assortment of the various colors and shades, our customers will find them **for bedding purposes the finest procurable. Pkt. 25 cts., 5 pkts. $1.**

GIANT-FLOWERING FRINGED PETUNIAS

SINGLE VARIETIES

Under this heading we have listed the finest possible varieties of the now popular large-flowering Fringed Petunias. Whether desired for bedding, cutting or general display, the varieties listed are the best by test of the Fimbriata, or fringed large-flowering class.

	Pkt.
Single Fringed White. Pure glistening white	$0 25
" " **Yellow.** Canary-yellow	25
" " **Rose.** Brilliant rose	25
" " **Crimson.** Dazzling crimson	25

Single Fringed Mixed. A mixture of best fringed varieties including with the above many new colors and shades. Should be grown by everyone desiring the best. Pkt. 25 cts.

DOUBLE VARIETIES

It has been a well-established fact that seed saved from the most carefully hybridized flowers produces a small percentage of double-flowering plants. It is important to save the weaker seedlings, as these invariably produce the finest double flowers.

	Pkt.
Double Fringed White	$0 50
" " **Rose**	50
" " **Crimson**	50

Double Fringed Mixed. A superb mixture of the finest double-fringed varieties. Pkt. 50 cts.

SINGLE BEDDING VARIETIES

	Pkt.
Balcony Blue. A splendid free-flowering type, either for bedding or window-boxes, vases, hanging-baskets, etc. Flowers average 3 inches across and are of a rich indigo-blue	$0 25
Balcony Rose. Brilliant rose-pink	25
Balcony Red. Bright red	25
Balcony White. Pure white; very graceful habit	25
Julius Wolff. Similar to Snow Queen, except in color which is light blue	25
Rosy Morn. Soft carmine-pink, white center	15
Rose of Heaven. Similar to Rosy Morn but more brilliant	25
Snowball. An excellent, compact variety, producing pure satiny white flowers throughout the entire season; very dwarf	15
Snow Queen. Pure white sort, not quite as compact as Snowball	25
Howard's Star. Rich crimson with distinct white star in the center	15
Countess of Ellesmere. Dark rose with fine white throat	10
Inimitable compacta. Bushy little plants covered with pretty striped and star-shaped flowers	10
Special Bedding, Mixed. Select, bright colors ... ¼oz. 40c	10



S. & W. Co.'s Giant-flowering Petunias



Pentstemon

PHLOX DRUMMONDII (Hardy Annual)

One of our best annuals, flowering freely all the summer. For richness of color they cannot be surpassed. They are invaluable for beds and ribbon-gardening, therefore no garden should be without them. They should be sown outdoors in May, in a situation well open to the sun, and they will flower and be a mass of color in July and continue until late autumn. Seeds may be sown in a hotbed in March and flowers be had in June.

Large-flowering Tall Varieties

This is the finest type, having the largest heads of bloom as well as the largest individual flowers; of strong, sturdy growth, attaining a height of about 15 inches.

	Pkt.	¼oz.
Brilliant. Finest crimson	$0 10	$0 75
Carmine. Carmine with white eye	10	75
Chamois-Rose. Shell-pink	15	1 00
Isabelliana. Tea-rose-yellow	15	1 00
Kermesina. Scarlet-striped	10	75
Leopoldii. Rose with white eye	15	1 00
Purple. Deep purple	10	75
Purple King. Purple, white eye	10	75
Rosea. Enchantress-pink	10	75
Scarlet. Rich scarlet	10	75
Splendens. Deep crimson, white eye	10	75
White. Pure white	10	75
Finest Tall Mixed	10	60

Imported Collection. **One pkt. each of 6 of above varieties $0 50**

One pkt. each of above 12 varieties 1 00

Large-flowering Dwarf Varieties

This type resembles the tall sorts offered in size of blooms but the plants are dwarfer in habit.

	Pkt.	¼oz.
Chamois-Rose. Shell-pink	$0 10	$1 25
Defiance. Brilliant crimson	10	1 25
Fireball. Scarlet	10	1 25
Purple	10	1 25
Snowball. Pure white	10	1 25
Surprise. Vermilion, white center	10	1 25
Finest Dwarf Mixed	10	1 00

IMPORTED COLLECTION. One pkt. each of above 6 varieties, 50 cts.

Star of Quedlinburg. Dwarf; star-shaped flowers; a novel variety. **Mixed colors, pkt. 10 cts., ¼oz. 75 cts.**

HARDY PHLOX

	Pkt.	¼oz.
Large-flowering Hybrids, Tall Mixed	$0 25	$2 50
Large-flowering Hybrids, Dwarf Mixed.	25	3 00

PASSION FLOWER

Handsome, rapid-growing perennial climber for greenhouse decoration or sunny positions in the open ground in summer.

	Pkt.
Cærulea. Large flowers of violet and blue	$0 15
Alba. Large, white flowers	15

PHYSALIS (Chinese Lantern Plant)

Franchetii. Hardy perennial forming dense bushes about 2 feet high, producing bright orange-scarlet lantern-like fruits. May be had in flower first year from seed if sown early; the fruits are often displayed in florist shops and are very interesting, and of splendid decorative value. Pkt. 25 cts., 5 pkts. $1.

PENTSTEMON (Beard Tongue)

Highly useful and attractive hardy perennial, and much used in the hardy border.

S. & W. Co.'s Giant-flowered Hybrids, Mixed. This is a mixture of the finest giant-flowering varieties and a very excellent assortment of colors. **Pkt. 25 cts., 5 pkts. $1.**

S. & W. Co.'s Pink Strain. A very pleasing strain of pink and pale rose shades. Pkt. 25 cts., 5 pkts. $1.

Sensation. As a bedding plant this takes rank with the petunia, phlox, etc. It grows about 2 feet high, every branch being a spike of large, gloxinia-like flowers in a very wide range of bright colors, including rose, red, carmine, cherry, pink, lilac, purple, etc. Not quite hardy, and best treated like petunias, verbenas, salvia, etc. Pkt. 15 cts., 2 pkts. 25 cts.



PHACELIA CAMPANULARIA

This is sometimes called the Californian Bluebell. The flowers are much like the Canterbury bells, of beautiful cup-shaped formation and a lovely gentian blue. The neat little bushes, about 1 foot high, are literally covered with these lovely flowers throughout the summer. It can be grown as easily as a cornflower. **Pkt. 25 cts., ¼oz. $1.**

Phlox Drummondii



Physostegia

PHYSOSTEGIA False Dragonhead

Virginica. One of the prettiest hardy perennials, forming dense bushes, 3 to 4 feet high, and bearing freely during the summer months spikes of delicate lilac tubular flowers not unlike a gigantic heather. Pkt. 10 cts., ¼oz. $1.
Virginica alba. White. Height 4 feet. Pkt. 25 cts.

PLATYCODON

Balloon Flower; Japanese Bellflower

One of the best hardy perennials, producing very showy flowers during the whole season. They form large clumps and are excellent for planting in permanent borders or among shrubbery. Easily raised from seed; begin blooming in August if sown outdoors in April.

	Pkt.	¼oz.
Grandiflorum. Large steel-blue flowers	$0 10	$0 75
Grandiflorum album. Pure white variety	10	75
Grandiflorum Mariesii. Large, open, bell-shaped flowers of a rich violet-blue; plant dwarf and compact	10	75
Grandiflorum japonicum fl.-pl. (Double Japanese Bellflower). Large, glossy, deep blue flowers. The inner petals alternate with the outer ones, giving the flower the appearance of a ten-pointed blue star..2 pkts. 25c..	15	

PORTULACA

Sun Plant

One of our finest annual plants, of easy culture, thriving best in a rather rich, light loam or sandy soil, and luxuriating in an exposed sunny situation. The flowers are of the richest colors and are produced throughout the summer in great profusion. Fine for massing in beds, edgings on rockwork, and frequently used to sow broadcast over sunny banks, etc. In any case, it is well to mix the seed with three or four times its bulk of dry sand or soil, which permits of even and easy distribution. 6 inches.



Portulaca

POLEMONIUM

Jacob's Ladder

Popular hardy perennial border plant, with bell-shaped flowers nearly 1 inch across. 2 feet. May to July. Pkt. 10 cts.
Cæruleum grandiflorum. Deep blue. Pkt. 10 cts., ¼oz. 50 cts.
Cæruleum album. Pure white. Pkt. 10 cts., ¼oz. 50 cts.
Richardsonii. Sky-blue. Pkt. 10 cts., ¼oz. 50 cts.

POLYANTHUS

Primula elatior

Showy, free-flowering plants for either pot or outdoor culture.
Giant Polyanthus. We offer an improved strain of this beautiful plant. For complete description see page 64. Pkt. 25 cts., 5 pkts. $1.



Platycodon grandiflorum japonicum fl.-pl.

SINGLE GRANDIFLORA

	Pkt.	¼oz.
Alba. Pure white	$0 10	$0 50
Aurea. Deep golden yellow	10	50
Rosea. Beautiful rose	10	50
Splendens. Crimson	$0 10	$0 50
Finest Mixed	10	40

DOUBLE GRANDIFLORA

	Pkt.	¼oz.
Alba. White	$0 10	$1 50
Rosea. Rose	10	1 50
Salmonea. Salmon	10	1 50
Splendens. Crimson	$0 10	$1 50
Sulphurea. Yellow	10	1 50
Finest Mixed	10	1 25

PUERARIA THUNBERGIANA

Japanese Kudzu Vine

To this must be awarded first place as the fastest-growing hardy climbing plant. It will grow 8 to 10 feet the first year from seed, and after it has become established there seems to be no limit to its growth, 50 feet in a single season being not unusual. Its foliage is large and covers well. It bears small racemes of rosy purple, pea-shaped blossoms toward the close of August. A splendid subject for permanently covering verandas, dead trees, etc. Pkt. 10 cts., ¼oz. 30 cts.



S. & W. Co.'s New Salpiglossis

(Painted Tongue)

COLLECTION
One pkt. each of above 8 colors, $1

FEW annual flowers give us such an abundance of bloom from early summer until cut down by frost. Only in recent years have American gardeners become better acquainted with this beautiful flower. For cut bloom it has become highly prized, while it is invaluable for mass effect in the garden. The trumpet-shaped blooms are exquisitely marked with veins of gold or silver running through the groundwork of the flowers; and their orchid-like, or lily-like appearance makes them instant favorites.

Their culture is simple: seeds may be sown in the open ground in spring, or for earlier flowering they may be sown in a hotbed or sunny window. When all danger of frost is past, plant them in the garden, allowing 9 inches between the seedlings.

SPECIAL OFFER. New Hybrids of Salpiglossis superbissima, Orchid-flowering

1. SCARLET AND GOLD
2. LIGHT BLUE AND GOLD
3. ROSE AND GOLD
4. PRIMROSE
5. CRIMSON
6. PURPLE AND GOLD
7. VELVETY VIOLET
8. BROWN AND GOLD

Each, pkt. 15 cts., ¼oz. 75 cts., oz. $2.50



SCABIOSA

(*Mourning Bride; Pin Cushion Flower*)

IF WE were carefully to take into consideration the number of easily-grown annual flowers that are best adapted for cut-flower purposes, and if our list were limited in number, we would suggest the growing of Scabiosa. The plants reach a height of about 2½ feet and begin blooming in early July, continuing without interruption until hard frost. The flowers are fully as large as illustrated, and the colors as nearly the same as good color printing can register them.

They make effective lines in the flower-garden. For best results, sow seed as soon as trees are out in leaf, in a well-prepared seed-bed, transplanting plants so as to leave 1 foot between them. It will greatly add to the beauty of the plant if light stakes are used for support, although this is not necessary. Keep flowers well cut as this helps to increase blooming. The beautiful flowers are borne on long stems and will keep almost a week in water after cutting.

1. **AZURE FAIRY. Clear lavender-blue.**
2. **SHELL-PINK. Delicate tint.**
3. **CRIMSON. Brilliant shade.**
4. **WHITE. Pure white.**
5. **ROSE. Rose-pink.**
6. **KING OF THE BLACKS. Velvety black-purple.**

Each, pkt. 10 cts.; ¼oz. 50 cts.; oz. $1.50

COLLECTION. 1 pkt. each of above 6 varieties 50 cts.; ¼oz. each of above 6 varieties, $2.50

POPPIES

Annual Poppies should be sown as early as possible in the spring where they are to remain, as they do not transplant readily. It is advisable to mix the seed with builders' sand, using about twenty-five times as much sand as seed, and then carefully broadcast seed in on the surface of the ground and firm well. Plants should be thinned out to stand about 6 inches apart for best results. Seed may be sown in rows also and in succession up to the middle of May. It is advisable to pick flowers just as they are expanding as they last longer; removing the old blooms from plants will help lengthen the flowering season.

Single Annual Varieties

Shirley, Carmine Shades. A selection of all the shades of carmine.
Shirley, Rose Shades. A selection of rose-color shades.
Shirley, Salmon Shades. A selection of salmon shades.
Shirley, White Shades. A selection of white shades.
Shirley, Wild Rose. One of the finest varieties of the Shirley, the flowers of which are best described as a pure wild-rose-pink.
Shirley, Mixed. We have prepared a mixture of these beautiful annual Poppies to cover all shades.

Each, pkt. 10 cts., ¼oz. 50 cts., oz. $1.50

COLLECTION: One pkt. each of above 5 shades, and Mixed (six in all), 50 cts.

	Pkt.	¼oz.
Admiral. A peony-flowered variety of surpassing beauty, having large flowers of glistening white, with a broad band of brilliant scarlet around the top	$0 10	$0 40
Charles Darwin. The large, smooth-edged flowers are a striking rich dark purple, with a velvety black spot at the base of each petal	10	35
Dainty Lady. Immense flowers 4 to 5 inches across, of a charming shade of rosy mauve, with a large dark metallic blotch at the base of each petal	10	35
Danebrog (Danish Cross). Very showy variety, producing large flowers of brilliant scarlet, with a silvery white spot on each petal, forming a white cross	10	25
King Edward. New. Gorgeous. Deep scarlet, shaded crimson-red, each petal marked with a black blotch against which the yellow anthers stand out in bold relief. The plant grows 2½ feet high	10	35
English Scarlet (Flanders). The common scarlet Field Poppy of Europe	10	25
Tulip Poppy (*Papaver glaucum*). One of the most brilliant; the flowers are 3 inches across and closely resemble the brilliant scarlet Gesneriana tulip	10	50

Double Annual Varieties

The Double Annual Poppies require the same cultural treatment as the Shirley. They are excellent to grow for cutting. For best results plants should be thinned out to stand 8 inches apart.

	Pkt.	¼oz.
American Flag. Beautiful variety; flowers very large and double, snow-white, bordered with scarlet	$0 10	$0 25
Fairy Blush. Very double flowers of pure white, elegantly fringed and tipped with rose	10	25
Golden Gate. Comprising an infinite variety of semi-double and double flowers in the greatest variety	10	25
Mikado (Striped Japanese Poppy). This beautiful Poppy is very distinct in character and color. The flowers are brilliant scarlet and white, with elegantly curved petals, like a Japanese chrysanthemum	10	25
White Swan. Immense double flowers, beautifully fringed and of purest white, of the same dwarf habit as Cardinal and Shell-Pink	10	25
Cardinal. A dwarf variety of the carnation-flowered type, growing about 2 feet high and bearing large, globular, fringed flowers of an intense cardinal-red	10	25
Shell-Pink. Similar in every way to Cardinal and White Swan, except color, which is a soft seashell- or chamois-pink. Very dainty	10	25
Carnation-flowered. Splendid double, fringed flowers. (See cut.)		
Mixed colors	10	1 00
Peony-flowered. Large, showy, double globular flowers, resembling a double Peony.		
Mixed Colors	10	20

POTENTILLA (Cinquefoil)

Charming plants for the mixed border, producing brilliant flowers. Will thrive in almost any soil provided the situation is sunny.

	Pkt.
Argentea calabra. Hardy perennial, producing yellow flowers during summer. Height 18 inches	$0 25
Nepalensis (formosa). Hardy perennial. Red. Height 18 in.	25
Miss Willmott. Hardy perennial. Rose. Height 6 inches	25

Hardy Perennial Poppies

Too much cannot be said of this class of Poppies, as for general effectiveness and brilliancy of display they are unequaled.

ORIENTAL POPPIES

Like the annual Poppies, these should be sown as early in the spring as the ground can be worked. The plants disappear during July and August, appearing again when the weather becomes cool. When this fall growth starts they should be transplanted to their permanent flowering quarters. It is well to mark the places they are planted, to insure the roots against disturbance during their annual resting period.

	Pkt.	½oz.
Orientale, Scarlet	$0 15	$1 00
Orientale, Oriflamme. Gorgeous orange-scarlet	15	1 25
Orientale, Princess Victoria. Immense salmon flowers.	25	1 25
Orientale, Finest Mixed	10	1 00

ICELAND POPPIES (*Papaver nudicaule*)

The Iceland Poppy, while considered a perennial, will flower the first year from seed. They are of graceful habit, with bright green, fern-like foliage, formed in tufts, from which issue slender stalks about 12 inches high, bearing their brilliant flowers in endless profusion. Most useful for cutting, for which purpose pick when in bud.

	Pkt.	½oz.
Iceland (Nudicaule) Scarlet	$0 15	$1 00
Iceland (Nudicaule) White	15	1 00
Iceland (Nudicaule) Yellow	15	1 00
Iceland (Nudicaule) Mixed	15	75
Iceland (Nudicaule) Double Mixed	15	75



Carnation-flowered Poppies (Annual)

PRIMULA (Primrose)

The charming and beautiful Chinese Fringed Primroses and Obconica varieties are among the most important winter-blooming pot-plants. The seed we offer is of the highest merit, and has, as usual, been saved from the best strains of European growth. Seed sown in April will bloom during early winter; August for spring blooming. Sow in shallow pans, in soil consisting of part sand and leaf-mold worked through a fine sieve and allow for good drainage. Cover seeds lightly and water frequently; give a temperature of about 65 degrees.

Primula sinensis (Chinese Primrose)

This beautiful Chinese Fringed Primrose is indispensable for spring decoration in the home or conservatory, and ranks as one of the finest of all winter-blooming pot-plants grown by the florist or the home-gardener.

Giant magnifica, Blue **Giant Ruby Queen** **Giant White, Fern-leaved**
Giant Crimson **Giant Salmon**
Giant Rose Queen **Giant Mixed**

Pkt. 75 cts.; collection of 6 pkts. for $4.25

Giant Double, White **Giant Double, Rosy Pink**
Giant Double, Scarlet **Giant Double, Salmon-Pink**
Giant Double, Blue **Giant Double, Mixed**

Pkt. 75 cts.; collection of 6 pkts. for $4.25

Primula stellata

A very pretty form, with large heads of star-shaped flowers of various colors; a splendid type for decorative purposes.

Giant White Star **Giant Crimson Star** **Giant Rosy Star**
Giant Salmon-Pink **Giant Blue Star** **Giant Mixed**

Pkt. 75 cts.; collection of 6 pkts. for $4.25



S. & W. Co.'s Primula sinensis

Primula obconica gigantea

This type of Primula outrivals the old Obconica type, the flowers being considerably larger, often measuring 1½ inches across. Pkt.

Obconica gigantea Kermesina. Rich crimson.....$0 25
" " **rosea.** Rose..... 25
" " **alba**..... 25
" " **lilacina.** Beautiful lilac..... 25
" " **Mixed.** A mixture containing pure white to crimson..... 25

Auricula. A well-known favorite of great beauty. Seed saved from splendid choice mixed varieties. Height 6 inches..... Pkt. $0 15
Beesiana. Purple with yellow eye. Height 2 feet..... 25
Bulleyana hybrida. Orange, apricot, and carmine shades. Height 2 feet..... 25
Cashmeriana. Large-flowered hybrids. White, mauve to purple, and violet. Height 12 inches..... 25
Denticulata. Rosy lilac. Height 1 foot..... 25
Japonica (Japanese Primrose). Bright and showy flowers, borne in whorls on stems 6 to 9 inches long. Mixed..... 15
Pulverulenta. Similar to *P. japonica* in habit, but the flowers are a rich ruby crimson. Height 1½ feet..... 25
Veris. The English Cowslip. Mixed colors..... 15
Vulgaris. Canary-yellow, fragrant. The true English Primrose. 15
Vulgaris cærulea. Blue Primrose. Height 1 foot..... 25
Vulgaris, Mixed. Primroses in a variety of colors. Height 1 ft. 15

HARDY PRIMULAS

These are among the best of the early spring-blooming plants. If they are given a slight protection, they will stand the winter, but will do better if they are protected by a coldframe.



S. & W. Co.'s Single Pyrethrum

SEVEN FINE GREENHOUSE PRIMULAS

Malacoides (The Giant Baby Primrose). The flowers measure ½ to ¾ inch across, and the plants branch very freely. The flowers, of a pretty light lilac, are borne in whorls on stems which are graceful and strong. A most delightful plant for table decoration. Pkt. 25 cts., 5 pkts. $1.
Malacoides alba. This beautiful new white variety is a welcome addition to this type of Primula. Pkt. 25 cts., 5 pkts. $1.
Malacoides fimbriata, Malacoides, Pink Beauty, and Malacoides superba. See Novelties, page 64. **Each, pkt. 25 cts.**
Forbesii (The Baby Primrose). The plants throw up tiny flower-stalks when only a few weeks old, but we advise pinching them off and the plants kept growing until October. They may then be allowed to flower, which continues until late in the spring. Pkt. 25 cts., 5 pkts. $1.
Kewensis. This new variety is most attractive, with bright yellow flowers. It is delightfully fragrant and stands well as a house plant. Pkt. 25 cts., 5 pkts. $1.

PYRETHRUM

The first-named variety is the well-known Golden Feather so much used for edging, carpet-bedding, etc., while the others are most attractive hardy plants, with daisy-like flowers that are perfect gems for cutting.
Aureum (Golden Feather). Half-hardy perennial, grown as an annual. Valuable for edging. Pkt. 10 cts., ¼oz. 50 cts.

S. & W. Co.'s Single Hybrids. Our strain of this beautiful hardy perennial has been grown specially in England for us by a specialist of this flower. The cosmos-like flowers range in color from the palest pinks to deep red, the bright yellow centers forming a splendid contrast. **Pkt. 25 cts., 5 pkts. $1.**

S. & W. Co.'s Double Hybrids. Colors and character of plants similar to the above, except that centers are tufted, somewhat resembling a double China aster. **Pkt. 25 cts., 5 pkts. $1.**

RAMONDIA

Pyrenaica. Hardy perennial for the alpine garden. Grows 4 inches high and produces violet-purple flowers in early spring. Pkt. 25 cts.

REHMANNIA

Angulata. Greenhouse herbaceous perennial from central China, erect habit; 2 to 3 feet in height; flowers 3 inches in diameter, rosy purple with yellow throat, spotted with deep purple; of easy culture; blooms nine months from time of sowing seed. Pkt. 25 cts.

RUDBECKIA (Coneflower)

Well-known hardy perennials, invaluable for the herbaceous border.

	Pkt.
Bicolor, Solfatare. Sulphur-yellow. Height 3 feet	$0 15
Bicolor superba. Yellow with brown center. Height 3 ft.	15
Fulgida. Orange-yellow. Height 5 feet	15
Newmani. Orange with purple cone. Height 3 feet	15
Purpurea. Reddish purple. Height 4 feet	15

SALPIGLOSSIS (Painted Tongue)

Few annual flowers contribute such a wealth of bloom from summer until cut down by frost. It is only of recent years that American gardeners have become better acquainted with this delightful annual. As a cut-flower it has become highly prized. The funnel-shaped flowers, facing upward, revealing their exquisite markings of either gold or silver veins running through the groundwork of the flowers, and their orchid-like appearance, make them instant favorites.

Seeds may be sown in the open ground in spring, or for earlier flowering sow in a hotbed or sunny window, and when all danger of frost is past, place in the garden, allowing 9 inches between the plants.



Salpiglossis superbissima (Orchid-flowering)



Salvia splendens (Scarlet Sage)

New Hybrids of Salpiglossis superbissima

(Orchid-flowering)

Brown and Gold	**Purple and Gold**
Crimson	**Scarlet and Gold**
Light Blue and Gold	**Rose and Gold**
Primrose	**Velvety Violet**

Each, pkt. 15 cts., ¼oz. 75 cts., oz. $2.50

COLLECTION: One pkt. each of above 8 colors, $1

Finest Mixed. All shades—Scarlet, Pink, Yellow, and Violet, pkt. 10 cts., ¼oz. 50 cts., oz. $1.75.

SALVIA

One of our most handsome summer and autumn-flowering plants, growing into compact bushes about 3 feet high and literally ablaze with brilliant flowers; very effective for massing on the lawn and for garden decorations. Half-hardy perennial.

Splendens (Scarlet Sage). Beautiful bright scarlet; 3 feet. Pkt. 10 cts., ¼oz. 60 cts.

Bonfire. One of the finest Salvias for bedding yet introduced. The plants grow into very compact oval bushes, about 2½ feet high and produce long spikes of brilliant scarlet flowers. They stand out stiff and erect; over 200 spikes to a plant is not unusual, and the spikes bear from twenty to thirty flowers each. Pkt. 10 cts., ¼oz. $1.50, ½oz. $2.50, oz. $5.

Scarlet Dragon. This variety is an improvement on the old Splendens type, the flowers being nearly double the size, closely crowding the immense spikes that often measure 6 inches across. **Pkt. 10 cts., ¼oz. $1.25.**

Zurich. A splendid dwarf variety, growing about 2 feet high, and is especially valuable on account of its flowering ten days in advance of any other sort. Pkt. 20 cts., ¼oz. $1.50.

Patens (Blue Sage). Deep rich blue. A beautiful plant for the border or greenhouse; tender perennial. 2 feet. Pkt. 25 cts.

Farinacea. A perennial variety, best grown as an annual. Seeds sown in the open in May bloom from July to frost. The fine light blue flowers are borne on long spikes. 2 feet. **Pkt. 15c.**

SAXIFRAGA

Cordifolia. Well-known rock-garden plant with pink flowers. Height 9 inches. Pkt. 25 cts.

SAPONARIA (Bouncing Bet)

Caucasica fl.-pl. (Double-flowering Bouncing Bet). A hardy perennial sort with white tinted rose, double flowers, produced all summer and fall. 15 inches..... Pkt. $0 10

Ocymoides. Hardy perennial rock-plant, producing during the summer masses of small, bright rose flowers. 9 inches..... 10

Vaccaria. Pretty and useful annual variety, growing 2 feet high, and bearing satiny pink flowers somewhat like an enlarged gypsophila. Charming for cutting. Several sowings should be made to keep up a succession of bloom..... 10

SCABIOSA (Mourning Bride; Sweet Scabious; Pin-Cushion Flower)

These beautiful hardy annuals are in great demand. They grow about 2½ feet high and bloom from early in July without interruption until cut down by the frost. As a flower for cutting they are very popular. The various shades are extremely charming, and are equally well adapted for borders or beds, where they display themselves very effectively. Seeds should be sown any time in the spring after danger of frost is past.

	Pkt.	¼oz.	Oz.
Azure Fairy. Clear lavender-blue	$0 10	$0 50	$1 50
Crimson. Brilliant and dazzling	10	50	1 50
King of the Blacks. Velvety purplish black.	10	50	1 50
Rose. Strong shade of pink	10	50	1 50
Shell-Pink. Delicate light tint	10	50	1 50
White. Pure white	10	50	1 50

COLLECTION: One pkt. each of above 6 varieties, 50 cts.

Tall Double Mixed	10	30	1 00
Dwarf Double Mixed	10	30	1 00

HARDY PERENNIAL VARIETIES

Caucasica (Blue Bonnet). One of the handsomest of hardy perennials. It is especially valuable for cutting, the lilac-blue blooms lasting a long time in water. 3 feet..... Pkt. $0 15

Caucasica alba. Pure white. 3 feet..... 25

Japonica. Hardy perennial variety, forming bushy plants 2½ feet in height, and bearing on long stems beautiful, lavender-blue flowers. It produces continuously all summer.... 25



Schizanthus wisetonensis

SANVITALIA

Procumbens fl.-pl. An annual of dwarf, compact growth, useful in masses in beds, or edges of borders, or in vases. Showy bright yellow, double flowers; in bloom all summer.... Pkt. $0 10

SCHIZANTHUS (Butterfly or Fringe Flower)

Although grown largely by the florist as a greenhouse plant, this annual is of easy culture in any good garden soil. For outdoor blooming, sow seed in May where intended to bloom and thin out to 6 inches.

Garaway's Hybrids. Has graceful fern-like foliage and bears a profusion of large flowers, handsomely marked on white, buff, brilliant rose, rich blue, brown, and black grounds. Seed sown in August and September will make fine plants for winter and spring flowering..... Pkt. $1 00

Wisetonensis. Largely used as a pot-plant for the conservatory. It is free-flowering and presents a beautiful appearance, with its myriads of blooms, the ground-color of which is white, dotted with rose.....5 pkts. $1.. 25

Dwarf Hybridus grandiflorus. New. Plants grow 12 inches in height, of compact and pyramidal habit, with a great range of colors, bright and handsome. Splendid for border planting.....5 pkts. $1.. 25

SEDUM (Stonecrop)

Dwarf hardy perennials for the rock-garden and for carpet bedding.

Acre. Yellow. Height 6 inches.
Album. White. Height 6 in.
Ewersi. Rose. Height 6 inches.
Middendorffianum. Yellow with dark foliage. Height 6 in.
Pilosum. Rose. Height 6 in.
Sarmentosum. Yellow. Height 6 inches.
Spectabile. Brilliant red. Height 12 inches.
Stoloniferum coccineum. Scarlet. Height 6 inches.

Each of above, pkt. 25 cts.

SENECIO (Groundsel)

Forms a neat clump from which develop 2-foot flower-stems.
Clivorum. Hardy perennial, 5 feet high, with yellow flowers. Pkt. 25 cts.

SIDALCEA

Erect plants with mallow-like flowers.
Rosy Gem. Hardy perennial. Rose-colored flowers. Height 3 feet. Pkt. 25 cts.

SILENE (Catchfly)

The varieties offered below are very pretty hardy perennials, well adapted for the rockery or the front of the hardy border. Pkt.

Alpestris. Glistening white flowers in summer. 4 inches..... $0 15

Schafta (Autumn Catchfly). A charming border or rock-plant, growing from 4 to 6 inches high, with masses of bright pink flowers from July to October..... 15

SMILAX (*Myrsiphyllum asparagoides*)

One of the most useful, and one of the most graceful climbers which adorns the greenhouse or conservatory. For bouquets and floral decorations it is indispensable. Pkt. 10 cts., ¼oz. 30 cts.

SOLANUM

Capsicastrum (Jerusalem Cherry). This is a very useful pot plant for winter decoration. It is of dwarf, branching habit, bearing in the greatest profusion bright scarlet globular berries. Leaves oval, small. Height 1 foot..... Pkt. $0 10

Capsicastrum, Fra Diavolo. A new variety of the above, of close, compact growth, with foliage somewhat smaller and lighter green. The small, bright scarlet fruits remain on the plant a long time and make it a beautiful decorative plant.... 15

STATICE (Sea Lavender)

Splendid hardy perennials, either for the border or rockery, producing all summer panicles of minute flowers, which can be dried and used for winter bouquets. Pkt.

Latifolia. Purplish blue flowers..... $0 10

Mixed. Containing many sorts..... 10

STEVIA

Serrata. Free-blooming plants, bearing a multitude of fragrant, pure white flowers; suitable for summer or winter blooming; largely used for cutting..... 10

STOCKS

These popular flowers are easily grown, and are so highly fragrant and of such great beauty, and have so many good qualities, that they deserve a place in every garden. They should be given good rich soil to grow in, and will amply reward good treatment with remarkably large pyramids of bloom. The flowers represent a great diversity of color. The Tall Perfection and Dwarf Bouquet Stocks are great improvements over the Gilliflowers of the olden times, the flowers being much larger and more densely double, and there is also a much larger variety of colors and shades than there used to be.

As they are half-hardy annuals, seed should be started in the house or hotbed during March or April, planted into small pots, and then set out in the garden during May, allowing 1 foot of space between the plants, in order that they may attain full and perfect development.

Our Stock seed is high-bred, being produced from plants grown in pots by a specialist, and will afford a very large percentage of double-flowering plants.

S. & W. Co.'s Early Giant Imperial

These Stocks are of special merit. They bloom very quickly and continue through the summer. We offer a wide range of color, and in the shades selected the proportion of double flowers is very high. Plants are of branching habit, 2 to 2½ feet high.

White **Lavender** **Dark Blue** **Deep Rose** **Apple Blossom**
Chamois-Rose **Blood-Red** **Canary-Yellow** **Mixed**

Any of the above varieties, pkt. 25 cts., ⅛oz. $1.50

S. & W. Co.'s Improved Giant Perfection

These are an improvement on the variety offered as Ten-Weeks' Stock. Of splendid, pyramidal growth, freely branching from the main stem, giving an abundance of large spikes of double flowers from early summer until fall, and are used largely for cutting. 2 feet.

White **Fiery Crimson** **Light Blue** **Sulphur-Yellow**
Chamois-Rose **Purple** **Dark Blue** **Mixed**

Any of the above varieties, pkt. 25 cts., ⅛oz. $1

Giant-Flowering Beauty Stocks

A magnificent, recently developed strain of early-flowering winter or Brompton Stocks, forming much-branched plants about 2 feet high, and having numerous spikes of very large, double, delightfully fragrant flowers; they are of special value as pot-plants for greenhouse decoration and for cutting during the dull winter months; for this purpose seed should be sown from July to September; if sown in February or March, will produce plants that will bloom from midsummer to frost.

Almond Blossom. White, shaded carmine.
Beauty of Nice. Delicate pink.
Crimson King. Rich blood-crimson.
Mont Blanc. Purest white.
Monte Carlo. Canary-yellow.
Old Rose. Beautiful shade of old rose.
Queen Alexandra. Beautiful lilac.
Summer Night. Rich deep blue.

Packet, any of the above varieties, 25 cts. each, ⅛oz. $1

STREPTOCARPUS HYBRIDUS

A new hybrid race of the Cape Primrose, the flowers somewhat resembling those of the gloxinia, but smaller. The plants are compact in habit, the flowers about 2 inches in diameter, with long, tube-like corollas, and are borne in clusters of six to eight on a stem, with several stems to the plants. The colors are varied from white through shades of pink, rose, wine-red, light blue, mauve, etc., many having white throats or marked in various ways. Used for greenhouse decoration. Pkt. 50 cts.

SWEET WILLIAM (*Dianthus barbatus*)

A well-known, attractive biennial which flowers the second season from seed. Sow outdoors in May, and transplant in August.

Single White **Single Black-Red** **Single Dark Crimson**
Single Crimson **Single Finest Mixed** **Single Red, Margined White**

Each, pkt. 10 cts., ¼oz. 50 cts.
COLLECTION: One pkt. each of 5 colors, 40 cts.

Double White **Double Black-Red** **Double Finest Mixed**
Double Crimson **Double Pink**

Each, pkt. 10 cts., ¼oz. $1

Newport Pink. A distinct new color which originated in one of the far-famed gardens at Newport, R. I. In color it is what florists call watermelon-pink or salmon-rose; strikingly brilliant and beautiful. The flowers are borne in massive heads, on stems 18 inches high. For midseason mass bedding it has no equal. It is also very effective for cutting. **Pkt. 15 cts., 2 pkts. 25 cts.**

Scarlet Beauty. A very effective, rich, deep scarlet variety. Pkt. 15c., 2 pkts. 25c.

Holborn Glory. This strain is a large-flowered selection of the auricula-eyed section, the most beautiful and admired of all Sweet Williams. Individual flowers and trusses are of extraordinary size, while the range of color, all showing a clear, white eye, is truly superb. Pkt. 10 cts., ¼oz. 50 cts.



S. & W. Co.'s Giant Perfection Stocks

STOKESIA

Cornflower Aster

Cyanea. This is not new, but is a rare and beautiful hardy perennial. The plant grows about 2 feet high, bearing from twenty to thirty handsome lavender-blue cornflower-like blossoms which often measure 3 to 4 inches in diameter; in bloom from July till frost. One of the choicest subjects for the perennial border and indispensable for cutting. Perfectly hardy in the latitude of New York. Pkt. 15 cts., ¼oz. $1.

S. & W. CO.'S SWEET PEAS

EARLY-FLOWERING VARIETIES

We have great pleasure in offering to our patrons a very complete list of Early or Winter-flowering Spencer Sweet Peas. Many of our patrons grew them under glass last fall and produced wonderful results. This, however, is not the only reason Sweet Pea growers have worked to produce the large-flowering strain of Sweet Peas to flower early. This new race of Early-flowering Spencer Sweet Peas is particularly adapted to sections where the Summer-flowering Spencer varieties have not proved satisfactory. In our southern states, Japan, Australia, as well as all tropical or sub-tropical countries, this strain of Early-flowering Spencers, if sown during the early fall months, will produce flowers during the winter and continue until killed by the extreme heat. This is a distinct advantage over the regular Spencer Sweet Peas which, if sown at the same time, will not begin flowering until April.



Early-flowering Sweet Pea, Blue Bird

The number of varieties of Early-flowering Sweet Peas that are now being offered has become so numerous that we have been obliged to make a careful survey of the kinds that are distinct in their color and also those that do best in the various parts of this country. The following list, we feel, covers this need quite well.

The expression *Early* before each variety is used so as to avoid these new varieties being confused with the late-flowering varieties.

Early Imperial Pink. New. Destined to become a favorite among florists and professional gardeners for many years to come. A clear pink of enormous size bred up from a line of strong and tested parentage, insuring vigorous growth, long stems, and an abundance of blooms over a long period. **Pkt. 50 cts., ½oz. $2.50, oz. $5.**

	Pkt.	½oz.	Oz.
Early Blanche Ferry. Similar to the popular late-blooming pink-and-white variety	$0 25	$0 60	$1 00
Early Blue Bird. The finest Wedgwood blue; throws a small percentage of dark blue rogues, but grows more vigorously than any other blue, fully a foot higher	25	85	1 50
Early Bright Light. The brightest of all scarlets, flaming, rich, and vivid	50	2 00	3 50
Early Cream. Best pale yellow	25	60	1 00
Early Columbia. One of the finest introductions. An improved Blanche Ferry, with a deeper rose standard and whiter wings	25	85	1 50
Early Eldorado. Beautiful new orange	50	1 75	3 00
Early Giant Rose. The finest rose-pink, bright and long lasting. Many of the 20-inch stems bear five blossoms	50	2 00	3 50
Early Gilda Gray. Very large flowers on very long strong stalks. The standard is salmon-cerise on pink, wings plumosa-pink, giving a beautiful shining effect	50	2 50	5 00
Early Glitters. One of the finest of its color—bright cerise	25	85	1 50
Early Grenadier. Best dazzling scarlet	25	85	1 50
Early Hercules. Beautiful large rosy pink flowers; vigorous grower; continues to produce flowers when others are out of season	25	60	1 00
Early Jeanne Mamitsch. Improvement on Zvolanek's Rose	50	2 00	3 50
Early Lavender King. Rich lavender	25	60	1 00
Early Madonna. The best black-seeded white variety; easy to germinate	25	85	1 50
Morse's Superior Pink. The color is a beautiful rose-pink, slightly shaded with salmon. Awarded silver medal at the New York Spring Show, and the highest award of the Chicago Florist Club—Certificate of Merit	25	1 75	3 00
Early Mrs. Kerr. Best salmon-pink	25	85	1 50
Early Queen Crimson. The brightest and richest early crimson—very brilliant	25	1 75	3 00
Early Rose Queen. A popular rose-pink	25	60	1 00
Early Snowstorm. Good white; vigorous	25	60	1 00
Early Snow-White. A splendid white of great substance, bearing usually four flowers to a stem	50	2 00	3 50
Early True Blue. Light violet-blue	25	60	1 00
Early White Harmony. The flowers are large and pure paper-white, of great substance. Black seed	25	1 75	3 00
Early Yarrawa. Vigorous grower. This is still considered among the good pink varieties	20	60	1 00
Zvolanek's Rose. A fine novelty of recent introduction; rose-pink	25	85	1 50
Early-flowering Mixed. A mixture of Early-flowering Sweet Peas covering all the colors	15	40	75



Summer-flowering Sweet Peas when grown for exhibition purposes are best grown in the manner illustrated above. The vines are trained to bamboo stakes. This insures unusually long, strong stems, frequently bearing 4 flowers of the very largest size. The illustration was taken from a photograph in a famous New England garden.

Stumpp & Walter Co.'s Sweet Peas

SUMMER-FLOWERING SPENCER VARIETIES

Culture of Sweet Peas. It is a well-known fact that, in order to have largest blooms of Sweet Peas, seed must be planted early so as to make the greatest root-development during early spring; many professional gardeners sow in pots and transplant in April, or sow the previous fall.

Sow seed as soon as the ground can be worked in the spring. Dig a trench about a foot wide and deep, and fill in with 6 inches of well-rotted stable manure; tread down firmly and replace the good garden soil. Draw a single straight line in the middle of the prepared surface, about ¾inch deep; sow seed at even distances of about 3 inches and cover. When the plants grow about 3 or 4 inches high, thin out, leaving the plants 6 inches from each other. (Experts who raise for exhibition thin out to one foot.)

The cutworm is one of the greatest enemies of Sweet Peas, attacking the young shoots just as they come up. At the first appearance of this pest, a good sprinkling of lime over the row sometimes helps to exterminate it. As soon as the vines reach a height of about 8 inches, proper trellis or other supports should be provided.

The Sweet Pea is a moisture-loving plant, and by the month of May the plants will require water. In order that the water may be retained by the soil and get to the roots, as well as to keep them cool, it is advisable to use a mulch of old stable manure and soak well with hose each or every other day, as needed.

We believe, in submitting the following list of 40 varieties of Summer-flowering Spencer Sweet Peas, we have covered the best distinct varieties in commerce.

	Pkt.	Oz.
Barbara. Sweet Pea experts consider this favorite the finest salmon-colored variety. A conspicuous sort at all Sweet Pea exhibitions	$0 10	$0 50
Blanche Ferry. Still a great bicolor variety and considered among the best. The standards are bright pink and the wings pure white—a lovely contrast	10	50
Blue Monarch. Where a dark blue sort is desired we suggest this variety	10	50
Blue Picotee. Another variety liked on account of its oddity. The flower is white, with a narrow picotee edge of dark blue	10	50
Campfire. Bright scarlet—the most vivid of its class. The large flowers are produced freely. One of the best	10	50
Carmelita. Delicate rose-pink with a beautiful salmon sheen, the whole on a ground of white	25	1 00
Charity. This is without a doubt the finest rich brilliant crimson which does not burn in the sun. A vigorous grower, the exquisitely waved flowers are usually produced in fours on long graceful stems	$0 15	$0 75
Colne Valley. This is a light lavender-blue self. A clear color and a splendid free-flowering variety	10	50
Commander Godsall. An entrancing shade of rich violet-blue	10	50
Constance Hinton. Still considered the finest black-seeded white	10	50
Countess Spencer. An old favorite and while now superseded for exhibition, still a good bright pink	10	40
Crimson King. Striking shade of rich deep crimson. Very large flowers with the true wave of the Spencer type	25	1 00

STUMPP & WALTER CO.'S SWEET PEAS, SUMMER-FLOWERING, continued

	Pkt.	Oz.
Daffodil. A splendid deep cream, quite the best in this class, and a vigorous grower. The variety is black-seeded	$0 15	$0 75
Defiance. The most brilliant Sweet Pea yet introduced. It is a fine, large, orange-scarlet, burnless, and of vigorous habit. Considered to have superseded all other orange-scarlets	25	1 50
Del Monte. A beautiful shade of salmon-pink-cerise. The flowers are enormous and of great substance, very strongly fluted and waved	25	1 00
Dobbie's Cream. Deep cream; still a winner at all Sweet Pea exhibitions on account of its splendid size and long stem	10	50
Elfrida Pearson. Continues to hold the fort among the newer varieties and quite the best of the pale pink selfs	10	50
Fiery Cross. This variety is considered the finest deep cerise. The flowers are borne in many four-flowered sprays	10	50
Florence Nightingale. Among the older favorites, this is still claimed to be the finest rosy lavender. The rosy sheen in the lavender makes it a charming color	10	50
George Herbert. The flowers of this variety are a most magnificent rich rosy carmine. The blooms are large and waved	10	50
Hawlmark Cerise. This variety differs from the deep cerise form, Fiery Cross, and the rose-cerise Illuminator in that the blending tone is a pure salmon. Is esteemed the finest salmon-cerise	25	1 00
Hawlmark Lavender. Without a doubt the finest pure lavender as yet introduced. The flowers are of the largest size	25	1 00
Hawlmark Pink. This might easily be considered the finest introduction in recent years. The color is a most beautiful shade of rich rose-pink, deeply flushed and shaded with salmon. The flowers are freely borne on many four-flowered sprays	25	1 00
Hawlmark Salmon-Pink. The color is very "alive," bright and satisfactory in both daylight and artificial light. A most useful Sweet Pea	15	75
Heavenly Blue. A fine new variety, of a most beautiful soft tone of Delphinium blue. It is a pure blue self that does not show a trace of violet. The flowers are of immense size, with fours invariably well-placed on long, stiff stems. The introducer claims this Novelty to supersede Mrs. Tom Jones, which up to this time, we considered the finest bright blue	25	3 00
Hebe. This mammoth Sweet Pea has immense, bright pink flowers. One of the newer types that should be in every garden	15	75
Hercules. A magnificent, large, soft rose-pink self. Still a great favorite at Sweet Pea exhibitions	10	50
King White. Still holds the fort as being the finest pure glistening white	10	50
Mary Pickford. A new variety, much on the order of Hawlmark Pink. The flowers are of large size and are borne freely in fours on long stems	25	
Miss California. A distinct shade of salmon-pink, and the effect is extremely beautiful whether under natural or artificial light. It is a vigorous grower, many long stems bearing four flowers. This variety received the Award of Merit of the British National Sweet Pea Society, in 1924	25	1 00
Mrs. C. P. Tomlin. This is now considered the leader among the rich crimson-scarlets and is remarkable for its purity of tone and substance. The color is scarlet with a touch of fiery red in it. The flowers are of largest size, producing many four-flowered sprays	15	75
Mrs. Tom Jones. Until the introduction of this beautiful variety there was no color like it in blues. The flowers are large, of great substance, exquisitely waved, and of a uniform bright delphinium-blue. A leader at all Sweet Pea exhibitions in its color	15	75
Pinkie. Beautiful rose-pink. A very vigorous grower, with flowers exceptionally large, stems extremely long, and plants that bloom over a longer period than most varieties	25	
Picture. Considered the largest Sweet Pea introduced to date and of unusual substance. The color is a blend of cream and pink shades, quite different from the usual cream-pink varieties, the color being flushed deeper in the wings, and the pink shade being brought out by the creamy flush in the center of the standard	$0 25	$1 00
Royal Pink. This is one of the largest Sweet Peas grown. Long stems carry enormous flowers, the ground color of which is light pink, suffused with deeper pink and shrimp-pink	25	1 00
Royal Purple. Without a doubt this is the finest rich royal purple. A large-flowering variety, with many four-flowered sprays	10	50
Sparkler. A wonderful exhibition variety of recent introduction. The color is a lovely combination of rose and cream, the standard being a bright rose, the wings a creamy primrose lightly suffused soft rose	15	60
Sunset. Bright rose on a ground-work of amber and gold. It is well named, as the color is strikingly like the sun at the day's end	10	50
Tangerine. This variety has been appropriately named—a deep orange, almost approaching the colors of the tangerine orange. Flowers of great size and well waved	15	75
Warrior. The finest dark maroon in our list. Hawlmark Maroon is the other fine variety of this shade but shows more red in the maroon, while Warrior shows more chocolate	10	50



Made from a photograph taken close to the plants to show length of stems and size of blooms

GRAND PRIZE MIXTURE
Giant Summer-flowering Sweet Peas

This is a combination of the best varieties of the Spencer Sweet Peas, and includes every described color and shade, good care being taken to have all the best varieties.

Packet	$0 10
Ounce	25
Quarter-pound	85
Half-pound	1 50
Pound	2 50

S. & W. Co.'s Dahlia-flowered Zinnias



ZINNIAS

NEW DOUBLE DAHLIA-FLOWERED. The plants attain the height of 3 feet, producing mammoth flowers averaging 6 inches across by 3 to 4 inches in depth, similar in shape to the decorative dahlia, with the same fullness of the petals. The huge flowers keep well when cut.

1. BUTTERCUP. Very large flowers of deep creamy yellow.
2. SCARLET FLAME. Bright scarlet, blended with orange.
3. EXQUISITE. Light rose, with deep rose center.
4. ORIOLE. A striking two-color flower—orange and gold.
5. DREAM. Deep lavender blue—a remarkable shade.
6. CRIMSON MONARCH. Immense flowers of flaming crimson.

Each, pkt. 25 cts., ¼oz. $1.50, oz. $5

COLLECTION
One pkt. each of above 6 colors, $1

THE Zinnia has, perhaps, gained more steadily in popularity than any of our annuals because of the interest taken in it by plant-breeders who have tried to excel one another in improving existing forms and bringing new ones each year to the attention of the flower-lover. We are offering some of the newer forms which will soon, we feel sure, become popular in your gardens. Few, if any, of the annuals have greater utility value. In the mixed border they may be had in bloom from early summer until cut down by frost, and they are splendid also when used as a cut-flower for house decoration. In order to get best results, seed should be sown either indoors in a sunny window and the plants transplanted to the garden early in May, or started outdoors and plants transplanted later. Leave at least 2 feet between plants as they are robust growers and need sufficient space to attain maximum development.



CANNA ROOTS

THE wonderful size of the flowers, depth of coloring and graceful habit of the plants of the modern Canna have greatly increased its usefulness to the garden-lover. The newer forms are not only used extensively for planting in beds, but are used very effectively in hardy borders, particularly for their foliage and color effect. For best results, the ground should be spaded up to the depth of 1 foot and a liberal quantity of well-rotted manure incorporated with it. A plentiful supply of water should be given at all times. Roots may be planted early in the open, but if possible to start indoors in pots, the plants will attain greater size at an earlier period in the summer. We offer three fine varieties in three distinct colors:

THE PRESIDENT. The finest scarlet Canna, with green foliage. Height, 4 feet.

HUNGARIA. We think this is the finest pink bedding Canna. Beautiful pink, in color not unlike a Paul Neyron rose. Green foliage. Height, 3½ feet.

RICHARD WALLACE. Beautiful canary-yellow flowers. Green foliage. Height, 4½ feet.

20 cts. each, $2 per doz., $15 per 100

COLLECTION. SPECIAL OFFER

1 root each of above 3 varieties, 50c.
6 roots of each, $2.50

TAGETES

Signata pumila. A dwarf, compact, bushy annual Marigold, with beautiful, delicate, fern-like leaves, densely covered with flowers of bright yellow, striped brown; a first-class border plant. Pkt. 10 cts., ¼oz. 50 cts.

THALICTRUM (Meadow Rue)

Adiantifolium. A beautiful hardy perennial, with foliage like the Maidenhair Fern and miniature white flowers in June and July. Pkt. 10 cts.

Dipterocarpum. Among the genus of hardy plants this is a real gem, not only for the garden, but its dainty graceful sprays of flowers elegantly arranged on stems 4 feet high, are invaluable for cutting. The flowers are a charming shade of violet-mauve, which is brightened by a cluster of lemon-yellow stamens and anthers. Pkt. 25 cts., 5 pkts. $1.

THERMOPSIS

A very striking plant, 4 feet tall, producing long spikes of yellow blossoms during June and July. Hardy perennial. Pkt. 25 cts.

THUNBERGIA (Black-eyed Susan)

Beautiful, rapid-growing annual climbers, preferring a warm, sunny situation; used extensively for hanging-baskets, vases, low fences, etc. Very pretty flowers in buff, white, orange, etc., with dark eyes. 4 feet. **Mixed Colors,** pkt. 10 cts., ¼oz. 50 cts.

THYMUS (Thyme)

Serpyllum. A valuable hardy perennial for the alpine garden. But 4 inches high, it is of trailing habit with bright lilac-purple flowers. Pkt. 25 cts.

TORENIA

Fournieri. A very fine annual; splendid for vases, hanging-baskets, borders, etc. Sky-blue flowers, with bright yellow center. Pkt. 10 c.

TRITOMA

(Red Hot Poker; Flame Flower; Torch Lily)

A perennial, not strictly hardy, but will live through the winter with a protective covering of leaves or short manure; or the roots may be lifted and carried over winter in sand in a cellar. The two following sorts are the most handsome, and are excellent for the border or for bedding.

Express. Orange-yellow. Height 4 feet. Pkt. 20 cts., ¼oz. 75 cts.
May Queen. Yellow. Height 2 feet. Pkt. 20 cts., ¼oz. 75 cts.

TROLLIUS (Globe Flower)

Like immense buttercups, these striking plants are very effective in the mixed border. Light soil, well drained, and a partly shaded position, suit them admirably. They bloom from May to August. Hardy perennials.

	Pkt.
Asiaticus. Orange. Height 2 feet	$0 25
Europæus. Yellow. Height 2 ft	25
Ledebouri. Orange. Height 2 feet	25

VALERIAN (Garden Heliotrope)

Hardy perennial. Pinnate foliage and panicles of flowers, with odor of heliotrope. 5 feet. June and July.

	Pkt.	Oz.
Red	$0 10	$0 50
White	10	50
Mixed	10	40

VERONICA

Spicata. An elegant hardy border plant, growing about 1½ feet high, bearing all summer spikes of bright blue flowers, which lengthen with age.

Alba (White), **Rosea** (Pink), **Mixed, each, pkt. 10 cts.**

	Pkt.
Amethystina. Amethyst-blue. Height 2 feet	$0 25
Incana. Blue. Height 1 foot	25
Longifolia. Lilac. Height 3 feet	25
Repens. Light blue. Height 6 inches	25



S & W. Co.'s Mammoth Verbena

MAMMOTH VERBENAS

We have been carefully selecting and improving this fine strain of Verbenas for years, and can recommend it as the very best procurable. The trusses and individual flowers are of the largest size, of brilliant colors, free-blooming and of vigorous habit. For best and quickest results seed should be sown early in the house or hotbed, and transplanted to flowering quarters in May. If sown outdoors in May, it blooms from the end of July on. Verbenas are better grown from seed than from cuttings, being more vigorous and not liable to disease.

	Pkt.	Oz.
S. & W. Co.'s Mammoth Defiance. Scarlet	$0 10	$2 00
S. & W. Co.'s Mammoth Blue. Deep blue	10	2 00
S. & W. Co.'s Mammoth Pink. Deep pink	10	2 00
S. & W. Co.'s Mammoth White. Pure white	10	2 00
S. & W. Co.'s Mammoth Striped	10	2 00
S. & W. Co.'s Mammoth Yellow	10	2 00
S. & W. Co.'s Mammoth Mixed. Finest colors	10	2 00
Ellen Willmott. Fine rose-pink	25	
Luminosa. A new color—on a ground of flame-pink we have shades of salmon, flesh, and coral, giving an effect which is unusual and very beautiful. The flowers are very large	¼oz. $1.50	25

VARIOUS VERBENAS

	Pkt.
Lemon Verbena (*Aloysia citriodora*). Every garden should have a few plants of this fragrant favorite. Its pale green, delightfully scented foliage goes well with any flower	$0 10
Erinoides (Moss Verbena). This lovely variety produces a mass of moss-like foliage, spreading over the ground like a carpet, above which are borne heads of purplish blue and white blossoms in lavish profusion; comes into flower in June, and continues until frost. For beds, baskets or rockeries	10
Venosa (Hardy Garden Verbena). Strong plants, 1 foot high, bear purple flowers continuously through the summer	25

VINCA (Madagascar Periwinkle; Old Maid)

Ornamental, free-blooming plants and one of the most satisfactory flowering bedding plants we have. It is best to start the seed early indoors or in a hotbed, but they begin blooming in August from seed sown out-of-doors in May.

	Pkt.	Oz.
Alba. Pure white	$0 10	$2 00
Rosea. Rose	10	2 00
Rosea alba. White, with rosy eye	10	2 00
Mixed	10	1 50

VIOLA (Tufted Pansies)

While the flowers of Tufted Pansies are not so large as the regular type, yet they bloom so freely that they are superior to Pansies where effect is wanted, the colors being particularly clear and distinct. They also bloom for a longer time.

Cornuta, Admiration. Large; dark blue.
" **Purple Queen.**
" **Mauve Queen.**
" **Papilio.** Blue, with dark eye.
Cornuta alba. White.
" **Perfection.** Light blue; large-flowered.
" **Yellow.**
" **Mixed.**

Each, pkt. 25 cts.

	Pkt.
Blue Gem (Jersey Gem). The flowers are a very pleasing shade of deep violet-blue, with an occasional very slight variation in tint, and may be relied on to come about 70 per cent true from seed. A great feature of this fine new variety is its wonderful power of resisting drought, the plants continuing to throw up flowers long after other varieties are withered up. Height 4 inches	$0 25
Sylvestris rosea. Pink. Height 6 inches	25
VIOLET (*Viola odorata*). Single Sweet Violet	25

WALLFLOWER

These half-hardy perennial and annual Wallflowers are grown for early spring bedding and for their delightful fragrance. Perennial sorts should be sown in autumn and carried over in coldframe; annual sorts may be sown indoors in March and will flower the first year from seed.

	Pkt.
Early Parisian. Golden, shaded orange-red	$0 10
" **Blood-Red.** Red, orange shaded	10
" **Golden Gem.** Yellow	10

The following varieties are not hardy but should be sown in early fall, and carried over winter in a frame and planted out in the spring.

SINGLE—Cloth of Gold (Yellow), **Eastern Queen** (Salmon), **Ellen Willmott** (Ruby-red), **Feltham Early** (Brown-red), **Golden Glory** (Old-gold), **Vulcan** (Deep red).

DOUBLE—Black-Brown, Canary-Yellow, Lilac, Orange-Brown, Yellow, Rosy Purple.

Any of the above varieties, pkt. 25 cts., 5 pkts. $1



Zinnia Haageana

VIRGINIAN STOCKS

Sown early, these pretty annuals are gay in the period between the spring and summer flowers, their fresh, bright colors in lines and beds producing a charming effect. May be sown like sweet alyssum; excellent for the border. **White, Rose,** or **Mixed, pkt. 10 cts., oz. 60 cts.**

ZINNIA (Youth and Old Age)

The seed may be sown in a hotbed or sunny window and transplanted, or sown later in the open ground. The plants come into flower early in the summer and keep on blooming until hard frost.

New Double Dahlia-flowered

The plants attain the height of 3 feet, producing mammoth flowers averaging 6 inches across by 3 to 4 inches in depth, similar in shape to the Decorative dahlia, with the same fullness of the petals.

Buttercup. Very large flowers of deep creamy yellow.
Crimson Monarch. Immense flowers of flaming crimson.
Dream. Deep lavender-blue—a remarkable shade.
Exquisite. Light rose, with deep rose center.
Oriole. A striking two-color flower—orange and gold.
Scarlet Flame. Bright scarlet, blended with orange.

Each, pkt. 25 cts., ¼oz. $1.50, oz. $5

COLLECTION: One pkt each of above 6 colors, $1

Mixed Dahlia-Flowered Zinnias. Pkt. 25 cts., ¼oz. $1.50, oz. $5.

Giant Double-flowering

Trials of this Zinnia sown in the open ground in April produced flowers 6 inches in diameter on plants 3 feet high. If sown in the open ground in April, thin out as soon as the plants are well up, leaving at least 1½ feet each way, as they are robust growers, and require a large amount of space to attain maximum size.

Flesh-Pink	***Salmon**	**Purple**	***Crimson**
Buttercup	***Yellow**	***Rose**	***White**
***Scarlet**			

Each, pkt. 25 cts., oz. $2

COLLECTION: One pkt. each of the above 6 colors marked (*) $1; ¼oz. each of these, $3

S. & W. Co.'s Giant Double-flowering Mixed.

We offer a well-prepared mixture of this greatly improved Zinnia and where our patrons are not desirous of growing them in separate colors, we suggest this mixture. **Pkt. 25 cts., oz. $2.**

Tall Double-flowering Mixed.

This Zinnia is similar in height and form of plant to our Giant Double-flowering except the flowers which are about two-thirds the size. **Pkt. 10 cts., oz. $1.**

Dwarf Double-flowering

This type of Zinnia, while not so tall as our Giant Double-flowering varieties, offered above, is a very satisfactory type for borders or cutting. Grows about 1½ feet high; flowers perfect.

Crimson	**White**	**Salmon-Rose**	**Scarlet**
Lemon-Yellow	**Purple**	**Golden**	**Mixed**

Each, pkt. 15 cts., oz. $1.50

Zinnia, Lilliput

This variety forms a bush about 1 foot high, and is covered with small, very double flowers in profusion.

	Pkt.	¼oz.		Pkt.	¼oz.
Scarlet Gem	$0 10	$0 50	**Orange Gem**	$0 10	$0 50
Golden Gem	10	50	**White Gem**	10	50
Salmon-Rose	10	50	**Finest Mixed**	10	50

Various Zinnias

Various types of Zinnias, all of which, on account of the odd formation of the flowers, should be more generally cultivated.

CURLED AND CRESTED. The petals of this strain are curled and crested into the most fantastic and graceful forms. Our mixture includes all the brilliant shades. **Pkt. 10 cts., ¼oz. 50c.**

HAAGEANA. A dwarf, compact variety growing 9 to 10 inches high, and bearing masses of double flowers 1½ inches through in a most unusual range of color—rose grounds tipped yellow, maroon ground tipped cream, yellow tipped wallflower-red. **Pkt. 15 cts., ¼oz. $1.**

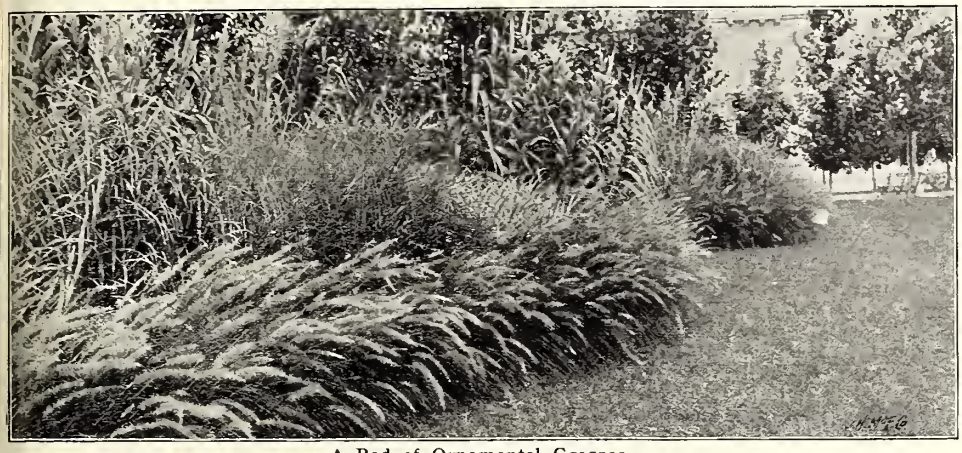
Picotee. The flowers of this new type are picoteed at the edge of the petals, with a color distinct from the body of the flower. Plants attain the height of 1½ feet and bear profusely. We offer them in a mixture of color. **Pkt. 25 cts., 5 pkts. $1.**

VICTORY QUILLED. This type of Zinnia has petals similar in form to the cactus-flowered Dahlia. The petals have a rather refined looking appearance and are very graceful. We offer them in a good mixture of color. **Pkt. 25 cts., 5 pkts. $1.**

Ornamental Grasses

The annual varieties are principally grown for their beautiful flower panicles which when dried are very useful for bouquet work. Perennial varieties are very valuable for borders or massed between shrubs or on the open lawn. Many of the varieties listed below have beautifully variegated foliage and, when planted as indicated above, they are most effective and pleasing.

Annuals, except where otherwise stated. Sow outside in May, transplant or thin out when large enough to handle. If grasses are cut before they are ripe, they will keep for a long period.



A Bed of Ornamental Grasses

AGROSTIS nebulosa. Annual. A very beautiful variety. Pkt. 10 cts.

Pulchella. A very striking sort. Pkt. 10 cts.

ANTHOXANTHUM gracile. Annual. Useful for edging. Pkt. 10 cts.

BRIZA compacta. Very pretty annual. 18 inches. Pkt. 10 cts.

Geniculata. Very pretty annual. 18 inches. Pkt. 10 cts.

Gracilis. Very pretty annual for bouquets. 12 inches. Pkt. 10 cts.

Maxima. Considered by many to be one of the best varieties for bouquet and dried flowers. Annual. 12 inches. Pkt. 10 cts.

BROMUS brizaeformis. Large drooping panicles, useful for bouquets. Annual. 2 feet. Pkt. 10 cts.

COIX lacryma (Job's Tears). A strong broad-leaved grass with large shining pearly seeds. Annual. 3 feet. Pkt. 10 cts.

ERIANTHUS Ravennæ. A hardy perennial grass resembling the Pampas, with beautiful foliage and fine silvery plumes; excellent for lawn specimens. Blooms first year from seed if sown early. Pkt. 10 cts.

ERAGROSTIS elegans (Love Grass). Annual. 1 foot. Pkt. 10 cts.

EULALIA japonica foliis vittatis. A very beautiful perennial variety used for forming large clumps. Leaves dark green, striped white. 4 feet. Pkt. 10 cts.

Zebrina (Zebra Grass). A very striking variety, very extensively used where an attractive variegated variety is wanted. 4 feet. Pkt. 10 cts.

GYNERIUM argenteum (Pampas Grass). Perennial, with magnificent silvery plumes. 6 feet. Pkt. 10 cts.

Jubatum. Panicles silvery rose. Pkt. 10 cts.

HORDEUM jubatum (Squirrel Tail Grass). Annual. Used for bouquets. 2 feet. Pkt. 10 cts.

ISOLEPIS gracilis. Graceful dwarf grass for pots. Pkt. 25c.

LAGURUS ovatus. Hardy annual, with silvery gray tufts. 1 foot. Pkt. 10 cts.

PENNISETUM longistylum. An annual grass with gracefully drooping heads. 2 feet. Pkt. 10 cts.

Ruppellianum. The foliage is long and slender, gracefully recurved and glossy deep green in color. If sown in March in heat, the plants should bloom by the middle of July; sown outdoors, will bloom in August. The silvery plumes, tinted with violet-purple, waving in the sunlight, are exquisitely beautiful; hardy perennial. 3 feet. Pkt. 10 cts.

STIPA pennata (Feather Grass). With silvery white feathery plumes. Pkt. 10 cts.

SETARIA macrochaeta. Drooping plumes of graceful appearance. Annual. Pkt. 10 cts.

UNIOLA latifolia. Perennial; very pretty. Pkt. 10 cts.

ZEA japonica. Striped maize. Pkt. 10 cts.

TALL. Annual Varieties, Mixed. Pkt. 10 cts.

DWARF. Annual Varieties, Mixed. Pkt. 10 cts.

COLLECTION:
12 distinct varieties of Ornamental Grasses $1 00
6 distinct varieties of Ornamental Grasses 50

Everlasting Flowers

Sow outside in May and thin out to 6 inches

ACROCLINIUM. Hardy annual. Good for cutting. Double White, Double Pink, Single Rose, and Double Mixed. Each, pkt. 10 cts.

GLOBE AMARANTH (Gomphrena). Sometimes called "Bachelor's Buttons." Popular bedding annuals; flowers resemble clover heads and can be dried and used in winter bouquets. Rose, White, Purple, and Mixed. Each, pkt. 10 cts., oz. 75 cts.

HELICHRYSUM (Straw Flower). One of the best and most popular of the "Everlastings." Annual. Very effective double flowers, making a fine display in beds or borders. To produce excellent plants thin out to 2 feet. **Rose Queen, Snowball, Salmon Queen, Golden Ball, Fireball, Violet Queen,** and **Mixed.** Each, pkt. 15 cts., ¼oz. 50 cts., oz. $1.50.

RHODANTHE. Very beautiful, delicate looking "Everlastings," much prized for winter bouquets. Annual.

Maculata. Single White, Rose, and Mixed. Each, pkt. 10 cts.

STATICE (Sea Lavender). Splendid hardy perennials, either for the border or rockery, producing all summer panicles of minute flowers, which can be dried and used for winter bouquets. Mixed varieties. Pkt. 10 cts.

XERANTHEMUM annuum (Immortelle). Grows about 3 feet high, and can be sown in the open ground early in May, growing readily in any open, sunny position, remaining in bloom from early summer until frost, bearing in abundance. Annual. Rose, Purple, White, and Mixed. Each, pkt. 10 cts.

Ornamental Beets

BRAZILIAN. Golden-leaved, scarlet-veined and crimson-veined. Pkt. 10 cts., oz. 50 cts.

DELL'S CRIMSON. A small, compact-growing variety, with deep bronze-purple foliage. Pkt. 10 cts., oz. 50 cts.

Mixed Flower Seeds

Hundreds of varieties, suitable for sowing in odd corners, embankments, etc. **Pkt. 10 cts., oz. 25 cts., ¼lb. 75 cts.**

NEW AND CHOICE CANNAS

DORMANT ROOTS

The wonderful size of flowers, depth of coloring, and graceful habit of plants in the modern Canna have greatly increased its usefulness to the garden-lover. It is much to be regretted that we occasionally observe mass plantings at railroad terminals and at some of our public institutions of the old Indian Shot. The modern Cannas we offer on this page are so far superior in every way that we feel certain that in a few years hence they will not only be used extensively for mass planting in beds, but will also be used in hardy borders, particularly for their foliage and color effect.

Dormant roots of Cannas should be potted in 4- or 5-inch pots or planted in shallow boxes in March or April, and kept in a warm place to start them into growth. The started plants may be planted out about May 20 to June 10 in the vicinity of New York; earlier in the South and later in the North. They should be set about 2 feet apart.

City of Portland

This variety and Hungaria might easily be called the best two pink Cannas. It is a trifle taller in growth than Hungaria and of a deeper tone of salmon-pink, with beautiful green foliage. Height 4½ feet.

Eureka

Canna hybridizers have worked patiently ever since the time of the introduction of the modern Canna, which bears such little relation as regards beauty of foliage and size of flowers to the old Indian Shot of bygone days, to produce a pure white. In offering Eureka we feel that our patrons are using the best all-round white variety for general mass planting or bedding. Height 4 feet.

Hungaria

The ideal pink bedder. Flowers large, in good trusses; color not unlike that of Paul Neyron rose. One of the best of the newer introductions and without a doubt one of the finest pink bedding Cannas as yet introduced. Height 3½ feet.



A mass planting of Cannas for autumn color effect

King Humbert

Of superlative beauty and by far the finest of all bronze-leaved Cannas. The enormous trusses are made up of flowers that measure 6 inches across, and are a rich salmon-scarlet, distinctly and numerously flecked with deep crimson markings. It is a free bloomer, and with its rich, coppery bronze, massive foliage, it produces an effect both bold and striking. Height 5 feet.

Louisiana

An orchid-flowering variety of vivid scarlet. The long silky flowers are borne well above the foliage. The beautiful bronze foliage contrasts well with the vivid color of the flower. Height 6 feet.

Richard Wallace

While this variety is not new, it still remains among the best of the canary-yellow sorts. The habit of the plant is excellent. The flowers are very large and are borne gracefully above the foliage. Height 4½ feet.

SPECIAL NOTE. **We offer and illustrate in color what we consider to be three of the finest new Cannas, and suggest that our patrons grow some in their gardens.**

The President

In color, a rich, glowing scarlet, and the immense, firm, rounded flowers, 7 inches across when open, are produced on strong, erect stalks well above the large, rich green foliage. "The President" is superior to any other red variety in quantity and quality of bloom, and the firm flowers resist drought and heat to a remarkable degree. Considered the finest Canna ever produced. Height 5 feet.

Wintzer's Colossal

This is considered one of the largest flowering Cannas in our list, flowers frequently measuring 8 inches in diameter. A bright scarlet; splendid bedder. Height 5 feet.

Wyoming

A bronze-foliaged variety, with immense spikes of large, massive orange flowers. Height 6 feet.

Yellow King Humbert

A sport of that most popular of all Cannas, King Humbert, producing large flowers in most beautiful shades of yellow, lightly spotted red. Has green foliage and bears five and six clusters of flowers at a time. Height 5 feet.

We offer Choice Roots of any of the above varieties, 20 cts. each, $2 per doz., $15 per 100



S. & W. Co.'s Giant Hybrid Amaryllis

FEW, if any, of the bulbous plants give the amateur greater pleasure for the window garden than these giant-flowering Amaryllis that are so easily managed. Up to a few years ago, the finest varieties of these were exhibited at our New York Flower Show and were in the hands of just a few fanciers who procured their bulbs from a famous English Collection. The United States Department of Agriculture, at Washington, has been improving on these strains for the past fifteen years, and our grower has been producing bulbs from a strain of seed secured from the Government. One of the most glorious sights in March is several thousands of these magnificent pot plants in bloom in the Government greenhouses at Washington, D. C. Our strain of bulbs produces vigorous stems with from four to six blooms of the most perfect form, ranging in color from pure white grounds with varied markings of rose, red, and crimson, to the richest self colors, such as scarlet, crimson, bright red, cherry, and almost maroon. Pot up bulbs, as soon as received, in good garden loam, enriched with a handful of bone fertilizer; water well and store in a dark place in a temperature of 50 to 60 degrees for four weeks until well rooted, then bring to light. Put in a sunny window and give water regularly. After flowering set outdoors in a partially shady place, laying pots on the side until bulbs become dormant. They may be repotted in the late autumn and be had in flower the following spring. **We selected the best colors, but have not separated them, therefore in order to get a general color range we suggest a purchase of at least six bulbs.**

JUMBO BULBS, suitable for 6-inch pots, $1 each, $10 per doz., $75 per 100

GENERAL LIST OF BULBS AND ROOTS

APIOS TUBEROSA (Tuberous-rooted Wistaria)

Clusters of rich, deep purple flowers, which have a strong, delicious violet fragrance. Tubers, 15 cts. each, $1 per doz., $8 per 100.

BEGONIAS TUBEROUS-ROOTED

CULTURE.—A popular method of culture adopted by most amateurs is to provide a pan or box, and cover bottom surface to the depth of say one inch or two with sphagnum moss, placing the bulb immediately on top and then covering with still another layer of sphagnum moss. They should be kept moist and moderately warm. Plant in pots in a light but finely sifted soil, about one inch below the surface, and water cautiously until plant has shown considerable growth, then increase the amount. Good drainage is essential. A finely developed plant might consist of three bulbs planted in a 7-inch pot. Splendid for shady borders or beds. Plant bulbs outdoors 8 inches apart, as soon as weather is warm, in latitude of New York about the middle of May.

ERECT TYPE (Large Bulbs, 1½ inches and up)

Single-Flowering Varieties

This class of the Tuberous-rooted Begonias is largely used for beds or border-planting.

White Yellow Pink Scarlet
35 cts. each, $3.50 per doz., $25 per 100
Select mixture of all sorts, equal proportions, 30 cts. each, $3 per doz., $22.50 per 100

Double-Flowering Varieties

White Yellow Pink Scarlet
40 cts. each, $4 per doz., $30 per 100
Select mixture of all sorts, equal proportions, 35 cts. each, $3.50 per doz., $25 per 100

CALLAS (Richardia)

The variety offered below succeeds best when treated in the same manner as gladioli, tuberoses and other summer-flowering bulbs. They should be planted in the open border in a dormant condition when danger from frost is over in spring, and will then flower during the summer months. When the tops are killed by frost in the autumn, dig and store through the winter as you would potatoes.

Golden Yellow (*Richardia Elliottiana*). This is the best of the Yellow Callas, its flowers being as large as the popular white winter-flowering variety, and of a rich, lustrous golden yellow of velvety texture; the foliage is dark green, with a number of translucent creamy white spots, which add much to its beauty. Strong bulbs 50 cts. each, $5 per doz., $40 per 100.



Caladium esculentum (Elephant's Ear)



Tuberous-rooted Begonias

CINNAMON VINE (*Dioscorea Batatas*)

A beautiful, rapid-growing summer climber, with bright green, glossy foliage, and spikes of deliciously cinnamon-scented, white flowers. It is perfectly hardy, the stem dying down in winter, but growing with great rapidity in the spring, so as to cover any trellis or arbor very early in the season. Large, select roots, 15c. ea., $1.25 per doz., $9 per 100; mammoth roots, 25c. each, $2.50 per doz., $15 per 100.

FANCY-LEAVED CALADIUMS

Few, if any, of the summer foliage plants equal the Fancy-leaved Caladiums in their rich and gorgeous, yet soft, coloring. All the varieties are of marvelous beauty for the furnishing of the conservatory during the summer months, or even for outdoor bedding in shady or semi-shady positions. Bulbs do best if started in pots, planting one bulb to a 6-inch pot. Bulbs should be planted and handled similar to suggested indoor culture of tuberous-rooted begonias.

Twelve Extra-Choice Named Varieties, 50 cts. each, $5 per doz., $35 per 100.
Extra-Choice Mixture of Named Varieties, 40 cts. each, $4 per doz., $25 per 100.

CALADIUM ESCULENTUM

Elephant's Ear

One of the most effective plants in cultivation for beds, borders or for planting out upon the lawn. Very frequently used as border plants about suburban residences, where their large, rich green leaves afford an excellent embellishment when contrasted with the colors of the dwellings. Leaves often measure 3 to 4 feet long and 2½ feet wide. Bulbs do best if planted outdoors in this latitude, about June 1.

	Each	Doz	100
First-size Bulbs	$0 20	$2 00	$10 00
Large-size Bulbs	25	2 50	15 00
Mammoth-size Bulbs	45	4 50	35 00
Jumbo-size Bulbs	65	6 50	50 00

DIELYTRA (Dicentra spectabilis)

Bleeding Heart or Seal Flower

An old-fashioned favorite; its long racemes of graceful heart-shaped pink flowers are always attractive. It is used largely for forcing, but is also excellent for the garden border and especially valuable for planting in the shade. Strong clumps, 75 cts. each, $7.50 per doz., $60 per 100.

GLOXINIAS

This is, perhaps, one of the handsomest of summer-blooming, tuberous-rooted plants and should be grown more by the amateur than it has been. As a pot-plant for the window-garden it is grand. The main points to observe are, proper care in watering, good drainage and properly mixed soil. The cultural directions given for Begonias might also be followed for starting and growing Gloxinias. One bulb is usually used for a 4-inch pot.

S. & W. Co.'s Mixture. A mixture of crimson, scarlet, pink, violet, and white. 40 cts. each, $4 per doz., $30 per 100.



Montbretia, Germania

MONTBRETIAS

The Montbretias are one of the brightest of our summer-flowering bulbs, and deserve to be planted extensively. The bulbs should be set out during April or May, 3 to 6 inches apart, in clumps of a dozen or more. They should be protected during the winter with a heavy covering of leaves or litter.

SIX NEW GIANT-FLOWERING VARIETIES

The following six varieties of new, giant-flowering Montbretias should be grown by everyone desiring the best. The type is so distinct from existing kinds as to justify recognition as an entirely new race. The flowers are held erect, sometimes as much as 4 inches across, and are borne on stems 3 or 4 feet high.

Fire King. Splendid glowing scarlet-red, decidedly one of the most beautiful and compares favorably with any of the new and more expensive sorts. 15 cts. each, $1.25 per doz., $7.50 per 100, $70 per 1,000.

George Davidson. A splendid Montbretia. The stems are 3 to 4 feet high, eight to ten-branched, bearing lovely, pale orange-yellow flowers 3 inches across; among the first to flower, and makes a glorious show in the garden. 20 cts. each, $2 per doz., $10 per 100, $90 per 1,000.

Germania. Grows from 3 to 4 feet high, producing graceful, free-branching flower-spikes, bearing very large, widely expanded flowers 2 to 3 inches across. The color is a rich, glowing orange-scarlet, with red throat. 15 cts. each, $1.25 per doz., $7.50 per 100, $70 per 1,000.

King Edmund. A very strong grower. The flowers are of large size, and of a rich golden yellow, with brown markings in the throat. 15 cts. each, $1.25 per doz., $7.50 per 100, $70 per 1,000.

Messidor. A variety of recent introduction. The flowers are of a pale yellow color and it is a tall grower. 25 cts. each, $2.50 per doz., $15 per 100.

Westwick. Distinct orange-red with a clear yellow eye surrounded by a circle of maroon. 15 cts. each, $1.25 per doz., $7.50 per 100, $70 per 1,000.

LILY-OF-THE-VALLEY (Convallaria)

This beautiful plant is often planted in an out-of-the-way place in the garden, particularly in the shade, but, like many plants that do well in any situation, it repays good treatment. If the bed is given a liberal top dressing of well-decayed manure in the fall or early spring, it will show the effect by increased size, number, and vigor of the flowers. We offer strong clumps especially suited for outdoor planting. They should be set 1 foot apart so as to allow the plant ample space to spread. Strong clumps, 60 cts. each, $6 per doz., $45 per 100

Splendid for the Shady Places in Your Garden

HYACINTHUS CANDICANS (Summer Hyacinth)

Luxuriant, free-growing summer-flowering plant; spreads 2 to 3 feet, throwing up great, tall spikes, 4 to 5 feet in height, each bearing twenty to thirty large, white, bell-shaped flowers. From our own personal trials we desire to advise our patrons against so-called "Jumbo" bulbs of this delightful plant, as this size frequently decays in the center after being planted. Choice bulbs, 15 cts. each, $1.50 per doz., $10 per 100.



MADEIRA VINE (Climbing Mignonette)

A beautiful and popular vine, covering a large space in a short time. Fleshy heart-shaped leaves of a light green, and numerous racemes of feathery flowers of delightful fragrance. Protect with litter in this latitude. 15 cts. each, $1.50 per doz., $10 per 100; by mail, 15 cts. per doz. extra.

TUBEROSES

One of the most delightfully fragrant and beautiful of the summer-flowering bulbs. By skillful management a succession of flowers may be obtained all the year round. For early flowers they can be started in February or March in the greenhouse or hotbed; and for a succession they can be planted at intervals as late as July. For flowering in the open border, plant about the middle of May, or as soon as the ground becomes warm.

Excelsior Double Pearl. Pure white, double-flowering Tuberose.
First-size Bulbs, 10 cts. each, $1 per doz., $6 per 100.
Jumbo Bulbs, 15 cts. each, $1.50 per doz., $10 per 100.

Albino. A single white variety blooming in July or August. Not as well known as the Double Pearl, and the odor is not as pronounced. 15 cts. each, $1.50 per doz., $10 per 100.



Tuberose

Plant a few Golden Yellow Callas in your garden this year

HARDY LILIES

The Lilies offered below are among the best for spring planting. For a more extensive list we refer to our Fall Bulb Catalogue, issued in August. Our list is confined to those varieties we know from actual trials do best, and the following varieties will prove satisfactory if planted by June 1.

Lilies do best in the hardy border or among shrubbery, for the reason that the flowering stems bear masses of roots immediately below the ground surface, and the shady situation helps these roots to better feed the plant; when through flowering, these roots help in the rehabilitation of the bulbs for another season. Any good garden soil with good drainage will do. In planting, cover bulbs at least twice their height, and, if possible, spread 1 inch of sharp builders' sand under the base, so that after the bulbs make basal roots the sand will provide drainage if water-logged in winter. When hard frost sets in, cover with 4 to 6 inches of leaves or litter which should be removed when spring sets in.

Lilium auratum

Golden-Rayed Lily of Japan

The flowers are pure white, thickly studded with crimson spots, while through the center of each petal runs a clear golden band. Fully expanded, the flowers measure nearly a foot across, are produced abundantly from July to September, and possess a most delicious fragrance. 3 to 5 feet.

	Each	Doz.	100
8-in. to 9-in. bulbs	$0 35	$3 50	$25 00
9-in. to 11-in. bulbs	45	4 50	35 00
11-in. to 13-in. bulbs	65	6 50	50 00

Lilium speciosum magnificum

Oriental Orchids

Words cannot describe the beauty of this variety. Frosted white, spotted, clouded and bordered with deep pinkish crimson. A much superior variety to the Roseum, Rubrum or Melpomene of the Speciosum type. For the border, among hardy plants or naturalized among rhododendrons, this is an equal favorite with the handsome *Lilium auratum* offered above. Splendid for pot culture as well. Blooms outside during August.

	Each	Doz.	100
8-in. to 9-in. bulbs	$0 35	$3 50	$25 00
9-in. to 11-in. bulbs	45	4 50	35 00
11-in. to 13-in. bulbs	65	6 50	50 00

Lilium speciosum album

The White Speciosum, which is usually grown with Magnificum and Auratum is a very dainty Lily. It flowers outside in the border or among rhododendrons at the same time as Auratum and Magnificum, and is one of the most extensively cultivated varieties.

	Each	Doz.	100
8-in. to 9-in. bulbs	$0 50	$5 00	$40 00
9-in. to 11-in. bulbs	75	7 50	60 00

Lilium Hansonii

Attains a height of 3 to 4 feet. Flowers reddish orange, eight to twelve in a cluster; petals thick and durable. A native of Japan and has always been high in price, but we have a stock of strong, home-grown bulbs that will give splendid satisfaction. Flowers during June. Choice bulbs, 75 cts. each, $7.50 per doz., $60 per 100.

Lilium Krameri

This beautiful funnel-shaped Lily bears blooms 6 inches or more in length and frequently 5 inches across, and is a beautiful clear pink, shaded blush. The flowers are carried on strong stems 3 to 4 feet high. As this Lily roots from the stem as well as from the base of the bulb, it is advisable to cover it at least 6 inches. Any rich garden soil will grow this Lily well. It is desirable, however, to place a small quantity of sand beneath the bulb at planting-time, so as to provide drainage. Best results are obtained by planting this Lily in the early spring. Its blooming period is late June and early July. 50 cts. each, $5 per doz., $40 per 100.



Lilium auratum (Golden-rayed Lily of Japan)

OTHER HARDY LILIES

Suitable for Garden Culture

	Each	Doz.	100
Canadense (Canadian Bellflower Lily). One of the most beautiful native Lilies; flowers bright yellow, with spots of red. Blooms in July and August	$0 30	$3 00	$20 00
Pardalinum. A California variety bearing twelve to thirty flowers on stems 4 to 6 feet high; bright orange, spotted dark crimson. Flowers in July	40	4 00	30 00
Regale. A regal beauty. The flowers are white, slightly suffused with pink, with a beautiful shade of canary-yellow at the center, blending out part way up the trumpet. The fragrance is delightful, similar to the jasmine. A splendid hardy Lily for the garden, flowering about July 1. The easiest Lily to grow. Selected first-size bulbs	75	7 50	60 00
Mammoth bulbs	1 00	10 00	80 00
Superbum. In a collection of best plants of all countries, our native Superbum Lily would deserve a first place. In deep, rich soil it often grows 8 feet high, with twenty to thirty flowers. It is of the easiest culture, and may be grown as a wild flower in any swampy or rough part of a place where the grass is not mown. Extra-selected bulbs	30	3 00	20 00
Tigrinum splendens. The finest type of the quaint and much-loved Tiger Lily. Large, selected bulbs	30	3 00	20 00
Tigrinum splendens, Double. The double form of the above	30	3 00	20 00



FIVE FINE NEW AND RARE GLADIOLUS

We believe the following five Gladiolus, which are this year obtainable at more moderate prices, to be the finest in their respective colors.

	Each	Doz.	100
1. Mrs. Dr. Norton	$0.20	$2.00	$15.00
2. Maine	.25	2.50	20.00
3. Rose Ash	.20	2.00	15.00
4. Golden Measure	.35	3.50	25.00
5. Crimson Glow	.20	2.00	15.00

SPECIAL OFFER

We offer, in collection only, at the following rates:

5 bulbs each of the above 5 varieties, 25 bulbs, $5.00
10 bulbs each of the above 5 varieties, 50 bulbs, 9.00
20 bulbs each of the above 5 varieties, 100 bulbs, 17.00

GLADIOLUS

WE frequently receive requests from our friends for a limited number of varieties of Gladioli to plant in their gardens for cutting purposes, and also to use as certain distinct colors for mass effect. From the standpoint of vigorous growth and good flowering qualities, these six varieties have become increasingly popular, and we find our sales of these splendid sorts increasing each year.

We offer on the following page a complete list of other standard as well as the newer and rarer varieties. If Gladiolus bulbs are planted from earliest spring until the middle of July, a succession of blooms may be obtained.



GLADIOLUS

If you are planning a color scheme in your garden and want Gladioli noted for their distinct colors and good flowering qualities, we suggest the varieties illustrated in color on this page.

SIX SPLENDID SORTS

	Each	Doz.	100
1 Alice Tiplady	$0.15	$1.50	$10.00
2 Halley	.10	.75	5.00
3 Schwaben	.15	1.25	8.00
4 Peace	.10	1.00	7.50
5 Mrs. Frank Pendleton	.15	1.25	8.00
6 Baron Hulot	.15	1.50	10.00

SPECIAL OFFER

We offer, in collection only, at the following rates:
5 Bulbs each of above 6 varieties (30 Bulbs), $3
10 Bulbs each of above 6 varieties (60 Bulbs), $5.50
20 Bulbs each of above 6 varieties (120 Bulbs), $10

GLADIOLUS

The Cream of the World's Best Varieties

MOST POPULAR OF ALL SUMMER-FLOWERING BULBOUS PLANTS

Few of the Summer-flowering Bulbous Plants have met with the same increased interest that Gladiolus have in the past ten years. Their adaptability for garden decoration or use as a cut-flower during the summer and autumn months is not surpassed by any bulbous plant we know of. In cutting Gladiolus for the house, it is best to cut the spikes as soon as the first one or two flowers are open. The remainder will open in the house. If you take pains each day to remove the faded flowers, cut a little off the end of the stem and change the water, a spike will last a week or ten days.

America. Delicate lavender-pink flowers of large size, borne on strong stems, and well placed; splendid habit. Very popular cut-flower variety. **10c. each, 75c. per doz., $5 per 100.**

Anna Eberius. Dark velvety purple, throat deeper shade; very large flowers on tall, fine spikes. A very fine variety in an unusual color. **15c. each, $1.50 per doz., $10 per 100.**

Baron Hulot. Rich, royal violet-blue. One of the finest of its color. Flowers are medium in size, well placed, and borne on strong spikes. A variety used for contrasting with the pale and deep yellow sorts. **15 cts. each, $1.50 per doz., $10 per 100.**

Byron L. Smith. A most refined lavender-pink on white ground—equal to that of a very fine Cattleya orchid. Exceedingly fine as a cut-flower. **30 cts. each, $3 per doz., $20 per 100.**

Captain Boynton. A fine shade of lavender with small blotch of deeper color on lower petals. Flowers are well placed on tall, erect spikes. **60c. each, $6 per doz., $45 per 100.**

Crimson Glow. Deep, brilliant crimson, overlaid with darker shades; lower petals blotched with deep velvety crimson. The flowers are immense and plentifully spread on the tall graceful stem. A very striking variety with a very vigorous constitution. **20 cts. each, $2 per doz., $15 per 100.**

Dream. Large, massive bloom, deep salmon-red, with very showy blotches. **20 cts. each, $2 per doz., $15 per 100.**

Dr. F. E. Bennett. Deep peach-red, with flame-scarlet suffusion, lip speckled ruby and white. Large flowers borne on tall, stiff stems. The general effect of the flower is red and it is considered the finest of its color. **$2 each, $20 per doz., $150 per 100.**

Early Sunrise. Large, red blooms with salmon-yellow throats. A very early variety. **15 cts. each, $1.50 per doz., $10 per 100.**

E. J. Shaylor. Tall, very strong plants and large blooms of a beautiful deep rose-pink. This variety has recently been awarded a certificate of merit in London. **20 cts. each, $2 per doz., $15 per 100.**

Evelyn Kirtland. The flowers, of strong substance, are a beautiful shade of rosy pink, darker at the edges, fading to shell-pink at the center with brilliant scarlet blotches on the lower petals, the entire flower showing a glistening, sparkling luster. Very tall spike. Extra-fine form and color. **15 cts. each, $1.50 per doz., $10 per 100.**

Fay Lamphier. One of the finest California novelties of recent introduction. It is perhaps best described as a warm watermelon-pink, suffused coral, often having a crystalline texture on the petals as if frosted. It is probably the largest Gladiolus known, often bearing flowers 5 to 6 inches across. Its strength and vigor produces tall, strong spikes on which many flowers open at one time. **20 cts. each, $2 per doz., $15 per 100.**

Flora. A variety on the order of Sulphur King, but of a deep, rich, pure yellow. A splendid cut-flower variety. **20 cts. each, $2 per doz., $15 per 100.**

Glory. This beautiful ruffled Gladiolus has become quite popular. The flowers are broadly expanded and well placed on straight strong spikes. The color is a creamy pink with a most attractive crimson stripe on the center of each lower petal. **15 cts. each, $1.50 per doz., $10 per 100.**

Golden Measure. A deeper shade of yellow, heretofore unknown in the large-flowering Gladiolus. Several of these gorgeous flowers in bloom at once on a tall stem give a most magnificent effect. **35 cts. each, $3.50 per doz., $25 per 100.**

Gretchen Zang. A beautiful rose tone of pink, blending toward scarlet on the lower petals. A variety of great merit on account of its splendid substance and size. **15 cts. each, $1.25 per doz., $8 per 100.**

Halley. A variety that is largely grown on account of its earliness. The flowers are large in size, of beautiful salmon-pink, with creamy white blotch in throat. One of the earliest-blooming varieties in our list. **10 cts. each, 75 cts. per doz., $5 per 100.**

Herada. Blooms of immense size on tall, straight spikes. The large blooms are pure mauve, glistening and clean, with deeper markings in the throat. **15c. each, $1.50 per doz., $10 per 100.**

Ida Van. A most beautiful deep salmon-red or flaming orange-pink. A very rich and brilliant color. **15 cts. each, $1.25 per doz., $8 per 100.**

Le Marechal Foch. A beautiful light salmon-pink and one that will be more generally grown when better known. **15 cts. each, $1.25 per doz., $8 per 100.**

Lily White. A comparatively recent, reliable, first-class, early, all-white forcing variety of good height, with large blooms, and many open at a time. Excellent for forcing or as a cut-flower for the garden. **15 cts. each, $1.25 per doz., $8 per 100.**

Louise. Well-opened orchid-like flowers of attractive bluish lavender, with wine-colored mark in the throat. This tall and stately new variety is a decided acquisition. **20 cts. each, $2 per doz., $15 per 100.**

Lustre. This variety makes a very striking note in the garden. It is a brilliant orange-vermilion. The flowers are well placed on good, strong spikes. **20c. each, $2 per doz., $15 per 100.**

Maine. A very fine new white, which opens a bit lemon toned, but bleaches out pure white when wide open. The stems are tall and slender and the flowers beautifully shaped and placed, with a goodly number open at one time. **25 cts. each, $2.50 per doz., $20 per 100.**

Mary Fennel. A beautiful shade of deep lavender, with petals penciled primrose. Flowers are large in size, borne on spikes medium in height. An excellent variety for contrasting with pale pink and primrose sorts. **20 cts. each, $2 per doz., $15 per 100.**

Mary Pickford. We are pleased to be able to secure sufficient stock to justify us offering this beautiful Gladiolus this year. An extraordinary flower and spike of a most delicate creamy white. Throat finest soft sulphur-yellow; stem and calyx also white. **20 cts. each, $2 per doz., $15 per 100.**

Mona Lisa. Palest soft rose-pink or blush-white. One of the finest of the ruffled types. The flowers are well placed on strong stems and many are open at the same time. **20 cts. each, $2 per doz., $15 per 100.**

Mr. Mark. A new light blue. There are few varieties of this or similar color. A tall, sturdy grower. **25 cts. each, $2.50 per doz., $20 per 100.**

Mrs. Frederick C. Peters. This beautiful new variety, somewhat resembling the orchid in coloring, is very desirable for fine gardens. It is a rose-lilac, with crimson blotch bordered white on lower segments. Flowers large and many open at one time. **50c. each, $5 per doz., $35 per 100.**

Mrs. Francis King. Brilliant flamingo-pink, blazed with vermilion-red. Popular variety on account of its attractive color. Splendid for mass effects. Flowers are large in size, well placed on strong, tall spikes. **10 cts. each, 75 cts. per doz., $5 per 100.**

Mrs. Frank Pendleton. Salmon-pink which extends to reverse side of the petals as well as in the center, with a rich, deep maroon blotch on the three lower petals. Flowers are wide open and well placed on strong spikes. A variety that has become very popular since its introduction some years ago and now can be obtained at a more moderate price. **15 cts. each, $1.25 per doz., $8 per 100.**

Mrs. Dr. Norton. Delicate cream and pink, deepening towards the edges; sulphur-yellow center. Flowers widely expanded. A very beautiful variety and much admired at Gladiolus exhibitions. **20 cts. each, $2 per doz., $15 per 100.**

Mrs. H. E. Bothin. Light geranium-pink with flame-scarlet center. A splendid color combination and one of the newer varieties which will become more popular when better known. **25 cts. each, $2.50 per doz., $20 per 100.**

Mrs. Watt. This variety is perhaps best described as a rich deep American Beauty shade of red. **15 cts. each, $1.25 per doz., $8 per 100.**

Niagara. Soft primrose, faint lines of lilac in the throat, with purple stamens and pale carmine stigmas which add to the attractiveness of the variety. Flowers are large in size, borne on tall spikes. **15 cts. each, $1.25 per doz., $8 per 100.**

GLADIOLUS

Everybody's Flower Because Everybody Can Grow Them

CULTURE.—Any good garden soil will grow Gladiolus well, provided they are planted in a sunny location. Bulbs should be planted 4 inches deep and at least 6 inches apart; frequent cultivation with a hoe or weeder, around the base of the plant, to prevent the soil from becoming hard or cakey, is advisable. Where desired for garden decoration or exhibition, we advise plants being staked after attaining the height of 1 foot. (We offer light green dyed bamboo canes, which are excellent for this purpose.) Water copiously, and as the flower-buds begin to form, apply liquid manure for the best results.

Odin. An early variety of a deeper salmon color than Prince of Wales. **15 cts. each, $1.50 per doz., $10 per 100.**

Orange Glory. This beautiful new ruffled Glory has all the refined qualities of the original variety, Glory. The color is a splendid shade of rosy orange. The flowers are exquisitely ruffled and are well placed on strong, stiff stems. **20 cts. each, $2 per doz., $15 per 100.**

Panama. Similar in type to America, but of a deeper shade of pure rose-pink. The flowers are large in size and well placed on tall, strong spikes. **15c. each, $1.25 per doz., $8 per 100.**

Peace. Few varieties have become as popular as Peace. The general effect of the flower is white, with a pale lilac feathering on the interior petals. They are large in size, well placed, and are borne on tall, strong spikes. **10 cts. each, $1 per doz., $7.50 per 100.**

Pride of Lancaster. A brilliant orange-salmon, with shading of deep orange in the throat. A beautiful ruffled variety named in honor of the birthplace of Luther Burbank. The flowers are of good size and are well placed on long stems. **20 cts. each, $2 per doz., $15 per 100.**

Prince of Wales. The flowers are large and well placed and the color is a most charming coral-pink. It is a sport of the variety Halley, but larger and of taller growth and also somewhat earlier. The delicate tint is practically without any throat markings. **15 cts. each, $1.50 per doz., $10 per 100.**

Rev. Ewbank. A beautiful light porcelain-blue, giving the effect of an almost solid color; early and good-sized flowers. **25 cts. each, $2.50 per doz., $20 per 100.**

Rose Ash. Peculiar soft, old-rose tones, fading to ashes of roses on the outer edges of petals. Very unique in coloring and greatly admired. If you have a room with mahogany furniture and mulberry hangings, this is an ideal indoor setting for Rose Ash. This is a decidedly new color in Gladiolus and one that will appeal to the lover of this splendid summer blooming bulbous plant. **20 cts. each, $2 per doz., $15 per 100.**

Rose Glory. This beautiful ruffled variety is a pure rose-pink in color. One of the finest of its type. **25 cts. each, $2.50 per doz., $20 per 100.**

Scarlet Wonder. Few Gladiolus are as strong growers as this splendid new variety. The foliage is a rich deep green and the plant attains a height of 4 to 5 feet. The flowers are large, many open at one time, and of a rich, velvety scarlet. **60 cts. each, $6 per doz., $45 per 100.**

Schwaben. Pure canary-yellow, with a carmine blotch deep in the throat which aids in detracting from its uniformity in color. Flowers are wide open, large in size and well placed on strong spikes of medium height. **15 cts. each, $1.25 per doz., $8 per 100.**

The Pearl. A very excellent cut-flower variety. Pale pink with cream-yellow throat. The flowers are well placed on straight stems. **15 cts. each, $1.25 per doz., $8 per 100.**

War. (Originator's stock.) The finest of its color yet introduced. Flowers often measure 7 inches across, of a deep ox-blood-red, shaded crimson-black. The flowers are well placed on spikes frequently attaining a height of 5 or 6 feet. The foliage is broad, deep green, almost as heavy as an iris leaf. A wonderful variety that can now be had at a reasonable price. **15 cts. each, $1.50 per doz., $10 per 100.**

White Glory. A gorgeous pure white variety of the same type as Glory. The flowers are exquisitely shaped, splendidly ruffled, of pure white color with a lovely iris-blue throat. **40 cts. each, $3.50 per doz., $25 per 100.**

AMERICAN HYBRIDS MIXED

In preparing this mixture of Gladiolus, some surplus named sorts, we have endeavored to cover all the conceivable colors that obtain in this beautiful family of flowers. The mixture is prepared from the finest named as well as seedling sorts, and has with it a popular price so as to encourage the liberal planting of them. The varieties used in the mixture are varieties of matured good growers and are excellent for cut-flower purposes or for planting in mixed borders, and we offer them at **60 cts. per doz., $4 per 100, $38 per 1,000.**



Field of Gladiolus growing on our Long Island Farms. Few soils produce Gladiolus bulbs of stronger vitality than Long Island soil does

NEW AND RARE PRIMULINUS HYBRIDS

To the flower-lover who has become interested in the Primulinus Hybrids and knows them, the following varieties will have a strong appeal.

Primulinus Hybrids are distinguished mainly for their fine and various shades of yellow, orange, and saffron tones. The flowers are borne on graceful stems and when cut are of splendid decorative value.

The commercial florists have come to recognize this wonderful new type of Gladiolus. The pure self-tones of the flowers suggest refinement. They are splendid growers and are excellent for mass effect.

Alice Tiplady

Tall, straight spike with ten to twelve blooms. Immense flowers of brilliant orange-salmon, with golden throat. A very showy, magnificent flower. We have featured this variety in a colored illustration this year. A few spikes of this placed in a tall vase makes a very attractive and imposing exhibit. The general color of the flower is magnificent under artificial light. **15 cts. each, $1.50 per doz., $10 per 100.**

Brilliant (Novelty)

The Gladiolus lover who has grown Alice Tiplady will be pleased to try this sterling novelty. It is a cross between Alice Tiplady and Orange Glory. It has all the good characteristics of bloom that Alice Tiplady has, and in addition greater height, length of stem and size of flower. The color a true even orange-saffron of great brilliance either in daylight or under artificial light. We are able to offer only a limited quantity of these bulbs this year. **75 cts. each, $7.50 per doz., $50 per 100.**

Dorothy Wheeler

Awarded Silver Medal by Massachusetts Horticultural Society in 1921. It is a most beautiful rose-pink. Slightly ruffled with lighter throat. Plant tall and many flowers open at once. **20 cts. each, $2 per doz., $15 per 100.**

Maiden's Blush

A very popular variety on account of its beautiful shell-pink color and earliness. Splendid for forcing. **15 cts. each, $1.50 per doz., $10 per 100.**

Salmon Beauty

A very large and showy flower; in fact the last two or three seasons it has been pronounced the best Primulinus by the Massachusetts Horticultural Society. The color is deep orange-salmon with a rich salmon-yellow throat. **15 cts. each, $1.50 per doz., $10 per 100.**

Souvenir

Of the many shades and tints in this beautiful type of Gladiolus, we consider Souvenir as being the best pure yellow variety. **15 cts. each, $1.50 per doz., $10 per 100.**

Primulinus Hybrids Mixture

When the original Primulinus was first grown in this country, many Gladiolus-growers were impressed with the graceful habit of the plant and flowers. They were small and somewhat hooded. The original species, as they were first introduced from South Africa, created interest among these growers mainly for their habit and the beautiful colorings of the flowers. They proceeded to cross them with the finest of the large-flowering Gladioli and the resultant crosses brought forth a really beautiful acquisition. The flowers were larger, more open, retaining their graceful placement on the spikes and also their beautiful range of artistic colors. Our hybrids range in color from pale sulphur-yellow-apricot to the deepest chrome-yellow and excellent shades of pink, orange, and scarlet. We are pleased to offer this splendid mixture and suggest that our patrons try some, as for artistic decorations these flowers borne on long slender spikes are wonderful. **80 cts. per doz., $6 per 100, $55 per 1,000.**



Primulinus Gladiolus Salmon Beauty

NEW AND RARE EXHIBITION DAHLIAS

The garden-lover who has become interested in Dahlias and vies with his neighbor in excelling him at his local Dahlia show, will be interested to know that some of the very high-priced varieties of last year are now available at more attractive prices. Our list of New and Rare Exhibition Dahlias has been reduced to those that we consider worthy of a place in every garden, and represents the cream of the finest varieties that are available in reasonable quantities. **We offer strong tubers for spring delivery.**

Ambassador. **(Hybrid Cactus.)** An outstanding Dahlia at many of the Dahlia exhibitions this autumn, and considered by many as being one of the best and most artistic of recent Dahlia introductions. Its color is, perhaps, best described as a soft yellow at the center, with salmon, amber, and pink shadings, gradually deepening toward the tips. The flowers are of largest size and are set just right on perfect stems. A strong grower and free bloomer. **$1.50 each, $15 per doz.**

Amun Ra. **(Decorative.)** A Dahlia of unusual color. Coppery bronze, shading to gold and amber. Flowers are flat, with rounded petals and the long, sturdy stems carry them royally. A notable addition to good new varieties that should have a place in every collection. **$1 each, $10 per doz.**

Ballet Girl. **(Cactus.)** English Cactus of the finest type and of very large size. Flowers of orange tipped white, clear orange, and white, striped red and orange, all on the same bush. Very interesting and pretty. Excellent for contrast with other varieties of solid color. **$1 each, $10 per doz.**

Bashful Giant. **(Decorative.)** Gigantic apricot flowers, with golden shadings, produced on long strong stems. Probably the largest Dahlia in cultivation. **$1 each, $10 per doz.**

California Gold. **(Decorative.)** Enormous, perfectly formed, of pure, glistening gold. The flowers are carried aloft on long stems and with scarcely any disbudding can be grown 9 to 10 inches across. Very free flowering. An excellent sort. **$1 each, $10 per doz.**

Carmello. **(Decorative.)** Very large flower with curly petals, held upright on fine strong stems. Rich deep amaranth-pink. **$2.50 each, $25 per doz.**

Champagne. **(Decorative.)** This Dahlia has many qualities that commend it to the Dahlia fancier. It has not only large size, perfect form, splendid habit of growth and stem and free flowering qualities, but a very distinct and delightful color. The introducer describes this as golden champagne with chamois shadings, which color combination doubtless suggests its name. **$1.50 each, $15 per doz.**

Dakota. **(Giant Decorative.)** This variety was very prominently displayed at the autumn Dahlia shows this year. It is of splendid habit, and the blooms are held erect on strong stems. The color is, perhaps, best described as flame. **75 cts. each, $7.50 per doz.**

Dorothy Robbins. **(Decorative.)** Large flowers of a real autumn shade of buff, with carrot-red center. Better than King of the Autumn. **$1 each, $10 per doz.**

Earl Williams. **(Giant Decorative.)** This giant flowering Decorative Dahlia attracted considerable attention at Dahlia shows this year. The color is a combination of brilliant crimson and white. One of the finest and most attractive of the newer varieties. **$1 each, $10 per doz.**

Effe May Walter. **(Hybrid Cactus.)** A Hybrid Cactus Dahlia of beautiful color and petal formation. The color, while rather difficult to describe, might best be called a beautiful raspberry shade that seems to be blended with old-rose; toward the center of the flower there is a blending of dull yellowish salmon that seems to have a faint suggestion of dull brown. In size it is medium to fairly large, and while it could never be put in the giant-flowering class, even through heavy disbudding, anyone who really enjoys a beautiful Dahlia will appreciate that the color and the formation of the flower are very much more important than huge size, which many growers do not consider an asset for a cut-flower Dahlia. The bush is a strong grower, with beautiful foliage that is somewhat different from the average Dahlia, and the buds are produced so plentifully that the plant should be disbudded. **$1.50 each, $15 per doz.**

Ellinor Vanderveer. Very large blooms of great depth and substance on fine long, strong stems. Color satiny rose-pink. **$2.50 each, $25 per doz.**

Elite Glory. **(Decorative.)** This sensational new giant Dahlia is easily the best in its class. Color a brilliant glowing red; perfect type and stem. Considered by Dahlia enthusiasts as one of the finest new Dahlias of recent introduction. **$5 each, $50 per doz.**

Emperor. **(Decorative.)** An exceptional variety. Its enormous size, beautiful deep color, the perfect form of the flower, and the extra-long stem, make this a magnificent prize-winner of the highest quality. It is a maroon of the finest type. The flower is made up of long, flat petals, and the color is so intense it does not spot under any weather conditions. **$1 each, $10 per doz.**

E. T. Bedford. **(Decorative.)** Rich purple, with silvery shadings. The enormous flowers are very freely produced on long, strong stems, held erect, well above the foliage. **$1 each, $10 per doz.**

Grace Sperling. **(Decorative.)** In introducing this new variety, we do so believing it will become exceptionally popular, both as a garden and cut-flower Dahlia. Its splendid color, beautiful form, and fine habits make it a very desirable Dahlia. The color is perhaps best described as a two-tone face of golden iridescent buff with reverse of petals amaranth-purple. Exceptionally free-flowering on long, perfect stems. **$1.50 each, $15 per doz.**

Insulinde. **(Decorative.)** This variety, which proved quite scarce in supply for several years, is always very much admired on account of its fascinating autumnal color. It is probably best described as a deep warm Havana brown. The flowers are borne upright on strong, stiff stems. **$1 each, $10 per doz.**

Jersey's Beacon. **(Decorative.)** This fine novelty is Chinese-scarlet in color, paler on the reverse, giving a two-toned effect. It is a great favorite and a real "beacon of the garden." Very large; free bloomer; vigorous grower. **$2.50 each, $25 per doz.**

Jersey's Beauty. This is, without a doubt, the finest true pink Decorative Dahlia yet introduced. The beautiful, large pink flowers are of perfect form and are supported on long, straight, stiff stems, held well above the foliage. As a cut-flower, it is a wonderful keeper and is instantly admired. A splendid exhibition Dahlia, and equally valuable for garden decoration. Owing to a good supply of tubers, we are able to offer this fine Dahlia at a reasonable price this year. **$1 each, $10 per doz.**

Jersey's King. **(Decorative.)** Very large, perfect flowers of a brilliant oriental red, with carmine suffusion. The flowers are borne on long, stiff stems, well above the foliage. **$1 each, $10 per doz.**

Jersey's Pride. **(Decorative.)** A large, attractive flower of a color that is, perhaps, best described as a combination of apricot and orange, with a golden suffusion, freely produced on long, stiff stems. **$1 each, $10 per doz.**

John Merritt. **(Decorative.)** Giant creamy white flower, carried on the finest of stems. A splendid bloomer. One of the best. **$1 each, $10 per doz.**

Judge Marean. **(Decorative.)** Very large flower of perfect Decorative type. The color is rather difficult to describe, being a combination of salmon-pink, orange, and gold. **$1 each, $10 per doz.**

Kitty Dunlap. **(Decorative.)** Delightful shade of American Beauty rose; broad, slightly rolling petals; large, deep flower, borne on long strong stems. **$1 each, $10 per doz.**

Margaret Masson. **(Decorative.)** Very large flowers on perfect stems. Color, silvery rose-pink. One of the best new Dahlias. **$2 each, $20 per doz.**

Merrick. **(Hybrid Decorative.)** Glorious shade of light maroon, tipped and edged mahogany. A combination that has instantly appealed to all who have seen it. Fine stem and a good keeper. Very free and constant bloomer. **$1 each, $10 per doz.**



Four Fine New Exhibition Dahlias

EACH year we endeavor to offer a new collection of Dahlias which have proven of outstanding merit, and to feature them in a colored illustration. The above varieties are very desirable in every collection, however rare.

	Each	Doz.
1. SAGAMORE	$2 00	$20 00
2. OYSTER BAY BEAUTY	3 50	35 00
3. TRENTONIAN	2 00	20 00
4. ELLINOR VANDERVEER	2 50	25 00

SPECIAL COLLECTION OFFER: One tuber each of the above 4 Fine New Exhibition Dahlias, $8. Two tubers each of the above 4 Fine New Exhibition Dahlias, $15.



FOUR FINE EXHIBITION DAHLIAS

We are offering a special collection of Dahlias, first featured in a color illustration last year, at somewhat more attractive prices. We heartily recommend this collection.

	Each	Doz.		Each	Doz.
1. JERSEY'S BEACON	$2.50	$25.00	3. GRACE SPERLING	$1.50	$15.00
2. VIOLA PHILLIPS	1.50	15.00	4. ROBERT TREAT	2.00	20.00

SPECIAL COLLECTION OFFER. One tuber each of the above 4 Fine New Exhibition Dahlias, $6
Two tubers each of the above 4 Fine New Exhibition Dahlias, $10

NEW AND RARE EXHIBITION DAHLIAS

Mariposa. **(Hybrid Cactus.)** A delightful shade of orchid-pink which is intensified by a deeper center, with a violet suffusion. One of the gigantic Californian introductions which has depth as well as diameter of flower. The flowers are borne on long, straight, stiff stems, well above the foliage. Blooms early and continues in good shape until the end of the season. **$1.50 each, $15 per doz.**

Mrs. George Stumpp. **(Decorative.)** One of our own introductions and considered one of the finest new Decoratives. The flowers are of great depth, of true Decorative form, and vary from 5 to 8 inches in diameter. In color they are of a delightful autumn shade—an exquisite blending of yellow and fawn. The plants are strong, sturdy growers, with rigid stems, and produce blooms continuously. **$1.50 each, $15 per doz.**

Mrs. I. de Ver Warner. **(Decorative.)** A refined deep mauve-pink Dahlia, of perfect form, impressive on account of its size and beautiful orchid color. It is an abundant bloomer, splendid for exhibition and fine for the garden. **$1 each, $10 per doz.**

Mrs. John T. Scheepers. **(Decorative.)** Very large flower, standing well above the foliage on long, upright stems. The color is, perhaps, best described as a canary-yellow, shading to delicate pink on outer petals. Strong, vigorous, free-blooming variety. **$1 each, $10 per doz.**

Mrs. William Wincott. **(Decorative.)** At last a clear yellow Decorative of perfect habit and form; fine for exhibition or cut-flowers; long stem and very free flowering. **75 cts. each, $7.50 per doz.**

Myra Valentine. **(Decorative.)** A beautiful shade of golden brown. The flowers are perfectly formed and are borne on long, straight, stiff stems, held erect, well above the foliage. An ideal Dahlia for exhibition or garden decoration. **$2.50 each, $25 per doz.**

Nichu. **(Hybrid Cactus.)** A splendid new Hybrid Cactus. Light sulphur-yellow, perfectly formed blooms, gracefully mounted on stout, wiry stems. A splendid variety for decorative work. **$2 ea., $20 per doz.**

Oyster Bay Beauty. **(Decorative.)** Very fine stems; profuse bloomer; large, dark velvety glowing red; fine formation. A Dahlia that has been admired by all who have seen it. Fine in combination with the autumn shades. **$3.50 each, $35 per doz.**

Penatiquit. **(Decorative.)** One of the finest Dahlias grown. Perfect in growth, form, and color. The large golden brown flowers come very freely on fine, long, strong stems. A wonderful cut-flower and exhibition variety. **$1 each, $10 per doz.**

Robert Treat. **(Decorative.)** Flowers 9 to 11 inches across and 4 inches deep, of a pleasing American Beauty rose-color, unlike any existing variety. Strong, healthy grower and free bloomer. A sensational Dahlia. (See color illustration.) **$2 each, $20 per doz.**

Rookwood. **(Decorative.)** In color this Dahlia is much like the Mrs. Charles Russell rose. It is a pure bright cerise-rose without the faintest touch of magenta, and is just as beautiful under the artificial light. Flowers are immense, with good depth and are held aloft on splendid straight stems. **$2 each, $20 per doz.**

Rose Fallon. **(Decorative.)** Flowers are of enormous size held erect on long, strong stems, and in color an even tone of pure old-gold. Splendid for exhibition purposes. **$5 each, $50 per doz.**

Sagamore. **(Decorative.)** An exceptionally fine cut-flower of a light apricot-buff, shaded orange-buff toward the center. It has fine strong stems with splendid keeping qualities. **$2 each, $20 per doz.**



Splendid decorative effects can be obtained by using various types of Dahlias as illustrated above

Samson. **(Decorative.)** Large, perfectly formed flowers of a striking combination of gold and red. One of the best. **$1 each, $10 per doz.**

Tommy Atkins. **(Decorative.)** A brilliant flaming scarlet with a metallic luster glistening in the sunshine. An early bloomer; large flowers on stiff stems. **$1 each, $10 per doz.**

Trentonian. **(Decorative.)** A very large Dahlia of a shade that instantly appeals—a fine blending of old-gold, amber, and coppery bronze, the whole forming a flower of beautiful brilliancy, with a reddish bronze center. The stems are long and strong. **$2 each, $20 per doz.**

Viola Phillips. **(Hybrid Cactus.)** Salmon suffused with mauve; very lovely combination; admired by all. Giant flowers on strong stems. This splendid Dahlia should be in every garden. **$1.50 each, $15 per doz.** (See color illustration.)

Semesan is a good disinfectant for all Bulbs and Tubers. Dust your Dahlia roots with it at planting time. It protects against fungus and disease. 2 ozs. 50 cts., ½lb. $1.60, lb. $2.75, 5 lbs. $13.

SELECT DECORATIVE DAHLIAS

We offer below 16 fine standard varieties of Decorative Dahlias, which can now be had at moderate prices.

Ayesha. We consider this a splendid Decorative variety in its color. The flowers are large, exquisitely formed, and an even shade of soft pure yellow. **50 cts. each, $5 per doz.**

Catherine Wilcox. Very good grower and fine stem; free bloomer; white, tipped cerise. **50 cts. each., $5 per doz.**

Charm. A fine strong grower with a good stem. The color is a pleasing shade of burnt orange, shaded yellow. Fine strong grower and a good exhibition variety. **50 cts. each, $5 per doz.**

Dream. **(Giant Decorative.)** A very beautiful shade of salmon, blending to amber. The plants are tall and healthy growers, producing their blossoms on strong stiff stems, well above the foliage. This variety was considerably admired where exhibited at the Dahlia shows this past season. **50 cts. each, $5 per doz.**

Dr. H. L. Tevis. One of the California Giant varieties which has been exhibited quite extensively this past fall and has been greatly admired. The color is a blending of copper, old-rose, and gold. Flowers are borne well above the foliage. **75 cts. each, $7.50 per doz.**

Hortulanus Fiet. The coloring of this variety is exceedingly wonderful, and it is, without doubt, the very largest and finest of its color. A beautiful shade of salmon with dainty blending of yellow at base of petals toward the center. **75 cts. each, $7.50 per doz.**

King of the Autumn. **(Decorative.)** A Holland Dahlia that has already gained a world-wide reputation as a cut-flower sort. The coloring is something quite new and unique—a buff-yellow suffused terra-cotta. The habit of the plant is absolutely perfect, with strong, sturdy stalks and long, stiff stems. Although classed as a Decorative Dahlia, over 90 per cent of the flowers usually come semi-double, showing that beautiful golden yellow so characteristic of the Peony-flowered Dahlia, which adds an additional charm to the flower. **50 cts. each, $5 per doz.**



Decorative Dahlia, Souvenir de Gustave Doazon

La Grosse Bette. A very large, well-formed deep maroon-red bloom borne on fine strong stems. **$1 each, $10 per doz.**

Le Grand Manitou. The color combination in the blooms of this superb variety is very attractive—pure white, artistically striped, splashed, and blotched deep violet-purple. The plants occasionally produce all purple flowers as is customary with all variegated varieties. The effect produced by the gigantic flowers of this variety is most phenomenal, giving it a supreme place in this class. **50 cts. each, $5 per doz.**

Millionaire. The color of this much-admired Dahlia is a pleasing shade of lavender with a faint pink cast overshading. The flowers are of gigantic size, frequently measuring 10 to 12 inches across, and of unusual depth. **$1 each, $10 per doz.**

Mrs. Carl Salbach. Few varieties among the newer creation of the Dahlia enthusiasts meet with greater favor than this splendid Dahlia. The flowers are of gigantic size and perfect form and the color is a beautiful shade of lavender. **50 cts. each, $5 per doz.**

Patrick O'Mara. An unusually soft and pleasing shade of orange-buff, slightly tinged Paul Neyron rose. Good keeping qualities. **50c. each, $5 per doz.**

Pride of California. Considered by many Dahlia enthusiasts as the most brilliant of the new Dahlias. The flowers are of large size, perfect in form, and of a glowing cardinal-red. The finest of the dark rich crimson decorative Dahlias for all purposes. **50c. each, $5 per doz.**

Princess Pat. A Dahlia of splendid form, producing magnificent large flowers 9 to 10 inches in diameter. The color is a most pleasing shade of old-rose, the center suffused with lavender or mauve, the flowers lighting up splendidly under artificial light. **75 cts. each, $7.50 per doz.**

Snowdrift. One of the finest white Decorative Dahlias, either for garden decoration or exhibition. A gigantic flower, of perfect form, with broad, waxy white petals, borne on stiff stems held erect. **$1 each., $10 per doz.**

Souv. de Gustave Doazon. This variety is a good comparison to the sunflower. It is the largest Dahlia in existence, and the color is a pleasing shade of red. The flowers are full to the center, and often measure 9 inches and over in diameter, and can be forced to measure 12 inches. **35 cts. each, $3.50 per doz.**



Decorative Dahlia, Hortulanus Fiet

CHOICE CACTUS DAHLIAS

We offer below a choice list of Cactus Dahlias which have proven to bloom well under varying conditions. They are all excellent cut-flower varieties as well as splendid varieties for garden decoration. While numerous Dahlia enthusiasts are growing the Decorative type of Dahlias on account of their massiveness, the Cactus Dahlia is still preferred by many flower-lovers on account of its artistic appearance.

Attraction. A gigantic Hybrid Cactus Dahlia that is one of the best cut-flower sorts to date. An elegant deep full flower of a clear lilac-rose. The habit of the plant is perfect, with long stems, as stiff as a cane, holding the bloom high and upright. **75 cts. ea., $7.50 per doz.**

Bianca. A splendid Hybrid Cactus Dahlia of gigantic size and fine form. The color is white, suffused and overlaid soft mauve-pink. **50 cts. each, $5 per doz.**

Countess of Lonsdale. The best-known and most desired of all the Cactus Dahlias. It is of the older Hybrid Cactus type, with broad, straight-pointed petals and is a very abundant and continuous bloomer. If only one Cactus Dahlia could be had, ninety-nine people out of a hundred would select this one. A deep salmon-red in color. **35 cts. each, $3.50 per doz.**

Daddy Butler. The color is American Beauty rose shades, or rosy carmine, reverse of petals being lighter; finely formed, very free bloomer, and has fine stems. **$1 each, $10 per doz.**

F. W. Fellowes. We consider this one of the best Cactus varieties ever raised. The flowers are of unusual size for the long, narrow-petaled type, of which this is one of the finest examples. In color it is an intense coral-red with deeper suffusion toward the center A leader in this type at all Dahlia exhibitions or for the garden. Excellent as a cut-flower. **75 cts. each, $7.50 per doz.**

George Walters. A Hybrid Cactus Dahlia we can highly recommend for all purposes, proving an exceptional garden variety, unexcelled for house decoration, and one of the most dependable for exhibition purposes. A variety of exquisite coloring, being a bright salmon-pink, artistically suffused old-gold. It has won the gold medal and first prize in several instances for the largest specimen flower at the exhibition. **50 cts. each, $5 per doz.**

Gladys Bates. A very large and lovely Dahlia. Tan with reverse rose shadings; free bloomer; good stems. **75 cts. each, $7.50 per doz.**

Kalif. A truly majestic flower, frequently measuring over 9 inches in diameter. The flower is of perfect Hybrid Cactus form, and in color a beautiful pure deep glowing scarlet. **75 cts. each, $7.50 per doz.**

Melody. Fine, incurved, large yellow Cactus, lipped white—sometimes white tipped yellow. Great favorite. **50 cts. each, $5 per doz.**

Mrs. Edna Spencer. A Hybrid Cactus with flowers of delicate and exquisite shade of orchid-pink. Very beautiful and of good formation with strong stems. **75 cts. each, $7.50 per doz.**



Cactus Dahlias

Mrs. W. E. Estes. We consider this the finest white Hybrid Cactus Dahlia of recent introduction. The flowers are snow-white, of large size, and are borne on long, stiff stems. A splendid exhibition variety. **$1 each, $10 per doz.**

Nibelungenhort. One of the old favorite Hybrid Cactus Dahlias. A beautiful shade of old-rose with a suggestion of salmon-pink shading apricot. Well-formed flowers borne on fine long stems. **75 cts. each, $7.50 per doz.**

Pierrot. A unique variety, combining, as it does, the qualities looked for in an exhibition Dahlia as well as a splendid garden variety. The flowers are exquisite in form, composed of very long, tubular, narrow petals, which are of a deep amber color, sometimes showing white tips, but even when it comes a self-color without these tips it possesses an individual refinement different from all other sorts. **75 cts. each, $7.50 per doz.**

Sunset Glow. This Dahlia has been well named. It is best described as yellow at base of petals, outer part overlaid flame-scarlet, tipped yellow; profuse bloomer on fine straight stem. **75 cts. each, $7.50 per doz.**

The Grizzly. Without a doubt the finest deep velvety maroon variety. Very large flowers on fine strong stems. **$1 each, $10 per doz.**

Yellow King. Pure yellow, shading to almost white at the tips of the florets; flowers almost as large as, and very much resembling a chrysanthemum. **50 cts. each, $5 per doz.**



Pompon Dahlias

POMPON DAHLIAS

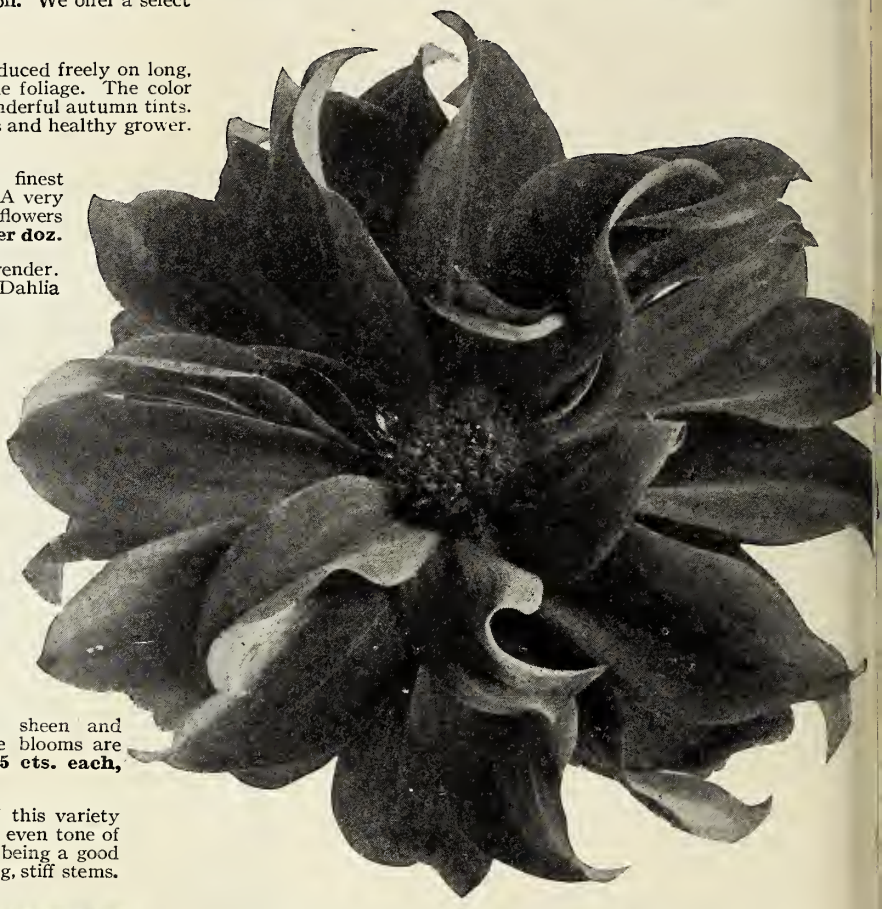
We offer below a select list of these beautiful Pompon Dahlias, a miniature form of the Show Dahlias, having the same ball-like form, but much smaller in size. The plants are also smaller, of branching habit, and produce an endless profusion of flowers, which are invaluable for table decoration and boutonnieres.

AMBER QUEEN. Rich amber, shaded apricot.
BOBBY. Plum-color.
FASHION. Brilliant orange.
LITTLE BEAUTY. Shrimp-pink.
SNOW. Snow-white.
SUNBEAM. Crimson-scarlet.

PRICE, any of the above, 30 cts. each, $3 per doz. COLLECTION, 1 each of 6 varieties, $1.50

SELECT PEONY-FLOWERED DAHLIAS

This splendid type of Dahlias, which originated in Holland, is now quite popular. The artistic flowers are very large and are perhaps best compared in form to the semi-double peonies. They all flower very freely and are borne on long, strong stems, making excellent material for cutting as well as for garden decoration. We offer a select list of standard varieties.



Aurore. Flowers are very large and are produced freely on long, stiff stems, standing well above the foliage. The color is a very beautiful deep orange-salmon, with wonderful autumn tints. Splendid for cutting or for the garden. Vigorous and healthy grower. **50 cts. each, $5 per doz.**

Avalanche. Pure white. Considered the finest white peony-flowered Dahlia. A very free-flowering variety, with splendidly formed flowers held erect above the foliage. **50 cts. each, $5 per doz.**

Billie Burke. Straw-yellow, edged rosy lavender. An enormous, free flowering Dahlia which is exceptionally attractive. Fine form and stems. **$1 each, $10 per doz.**

Camelle Frachon. An intense aniline, deepening to a rich garnet. A very attractive variety borne on strong stems. **75 cts. each, $7.50 per doz.**

Diermant van Bijstein. A variety imported from Holland, and one we can highly recommend. It is a very distinct and new shade—lilac-blue throughout. The plants are tall and sturdy growers, holding the blooms well above the foliage. **50 cts. each, $5 per doz.**

Louise Schwartz. Very large, beautiful creamy salmon, shading to delicate pink; a free-blooming variety borne on strong stems. **75 cts. each, $7.50 per doz.**

Oregon Beauty. Gorgeous brilliant Oriental red with golden sheen and garnet suffusion. Very profuse bloomer. The blooms are very large and are borne on strong stems. **35 cts. each, $3.50 per doz.**

Sweethearts' Bouquet. The flowers of this variety are of a lovely even tone of salmon-pink. The habit of the plant is ideal, being a good grower and free bloomer, carrying its flower on long, stiff stems. **75 cts. each, $7.50 per doz.**



Single Dahlia, Rose-Pink Century

NEW CENTURY SINGLE DAHLIAS

We offer below a list of the best varieties of these Dahlias. They are very popular for garden decoration or for cutting.

Eckford Century. Pure white, beautifully spotted and penciled with crimson.

Poinsettia. The color of this variety reminds one of the brilliant scarlet poinsettia, so extensively grown as a Christmas flower.

Rose-Pink Century. Flowers 6 inches and over in diameter, of a clear rose-pink color. A strong grower, with long, stiff stems; fine for cutting.

St. George. An even shade of primrose-yellow.

Snowflake. A very free-flowering, pure snow-white variety.

Wildfire. Brilliant cochineal-red with orange-scarlet suffusion. Habit, dwarf and free.

Price, any of the above, 35 cts. each, $3.50 per doz.

COLLECTION, 1 each of 6 Century Dahlias, $1.50.



Special Collection Offer A

Five Fine Everblooming Rose Bushes for $4.00

1. Duchess of Wellington
2. Radiance
3. Kaiserin Auguste Viktoria
4. Columbia
5. Hadley

AMERICAN-GROWN 2-YEAR-OLD DORMANT PLANTS

The Rose bushes we are offering are 2-year-old, budded plants, which give better results than those grown on their own roots. They make stronger plants and produce more and better flowers the first year.

FIVE SPLENDID EVERBLOOMING ROSES

WE are again making a special offer of the above 5 Roses. The varieties offered are distinct in their colors and are noted for their free-flowering qualities. Owing to our having had a large quantity especially grown, we are able to offer them at a slightly reduced price in collections only. If our patrons desire to purchase any of these varieties separately, we suggest their referring to the following two pages, where they will be found listed and more fully described.



Special Collection Offer B

Five Fine Everblooming Rose Bushes for $4.00

1. Ophelia
2. Los Angeles
3. Mrs. Aaron Ward
4. Mme. Caroline Testout
5. Red Radiance

AMERICAN-GROWN 2-YEAR-OLD DORMANT PLANTS

The Rose bushes we are offering are 2-year-old budded plants, which give better results than those grown on their own roots. They make stronger plants and produce more and better flowers the first year.

FIVE SPLENDID EVERBLOOMING ROSES

WE are again making a special offer of the above 5 Roses. The varieties offered are distinct in their colors and are noted for their free-flowering qualities. Owing to our having had a large quantity especially grown, we are able to offer them at a slightly reduced price in collections only. If our patrons desire to purchase any of these varieties separately, we suggest their referring to the following two text pages, where they will be found listed and more fully described.

HYBRID TEA ROSES

Our Roses are all American-grown, two-year-old stock. They are budded or grafted, and while some planters prefer stock grown on their own roots on account of the liability of budded plants to throw up suckers, this will rarely occur if deep plantings are made, and if a wild shoot should appear, it is readily distinguished by the most casual observer, and should be removed close to the root. Budded plants are more vigorous, produce finer blooms, come to bearing sooner, and are equally as permanent and hardy as those on their own roots, and many of the choicest varieties do not succeed unless budded or grafted.

Culture and Hints on Growing. The best soil in which to grow Roses is good topsoil to which rotted cow-manure has been added. Dig out the bed to a depth of 2 feet or more, and, if drainage is imperfect, it must be provided for. Fill in with a mixture of soil and manure as above. It is best to make beds, if possible, in advance of planting, so as to allow time for settling. Beds may be made any size, but it is best to have them about 3½ by 5 feet, which enables you to pick the blooms without stepping on the beds. The ideal time to plant is just after severe frost has passed. Hybrid Teas should be set 1½ feet apart; Hybrid Perpetuals 2 feet apart, and both 8 inches from the edge of the beds. They should be planted with the roots well spread out and placed about 9 inches below the surface of the ground, the soil made firm about them, and liberally watered. Throughout the summer the surface soil should be cultivated weekly. If good cultivation, like the above, is given, watering will rarely be necessary.

Winter Protection. In this latitude the most satisfactory form of protection is to draw up a mound of soil from 8 to 10 inches high around the base of the plant, then cover the entire bed after the ground begins to freeze with any loose material, such as strawy manure, evergreen boughs, or corn-stalks. The most serious insect pest that attacks Roses is the rose bug.

BETTY. When established it produces blooms of marvelous beauty, particularly in the autumn. Large flowers of a glowing coppery rose color, suffused with gold.

CHEERFUL. Shining pink, illumined with orange and yellow. A very distinct and interesting variety; slightly fragrant; free blooming in spring and fall.

COLUMBIA. This beautiful Rose has not only become one of the most popular greenhouse blooming varieties, but has proved itself one of the best bedding and garden sorts. It is of strong, vigorous habit and exceptionally free blooming. In color it is a most pleasing shade of rose-pink.

CONSTANCE. A free-flowering variety, producing beautiful long orange-yellow buds of perfect form, which, as they develop, open to a full globular flower of golden yellow. Rosarians consider this among the best of the yellow garden Roses.

DEAN HOLE. Silvery carmine with salmon shadings; large, full, of fine form and very fragrant. An excellent variety.

DOUBLE WHITE KILLARNEY. Very long-pointed buds of the typical Killarney form, but snowy white; open blooms beautifully formed with more petals than the original variety.

DUCHESS OF WELLINGTON. As the flower develops it changes in color from a saffron-yellow to a deep coppery saffron-yellow. The flowers are fairly full, with petals of great substance. A very free-flowering and fragrant variety.

ELDORADO. Golden yellow buds, flushed with red, opening to clear yellow, cupped blooms filled to the center with crinkled petals; slightly fragrant.

ETOILE DE FRANCE. A vivid crimson with darker shadings; very double, of good size, and fragrant. One of the finest red varieties, succeeding equally well in all parts of the country.

FRANCIS SCOTT KEY. One of the rich crimson-reds that is particularly good in the autumn. A very sturdy grower and free bloomer.

GENERAL MACARTHUR. This well-known favorite is much admired on account of its delightful fragrance. It is one of the earliest and most perpetual flowering varieties in our list. The blooms are well formed and of a rich crimson-scarlet color.

GOLDEN EMBLEM. A very beautiful clear yellow Rose, and much admired on account of its rich glossy green foliage. The well-shaped buds are borne on long stems. Another real good worthwhile yellow Rose.

GOLDEN OPHELIA. Well-shaped blooms with a heart of golden yellow; shading lighter toward the edges of the petals and delicately scented. The plant is robust and healthy, blooming with great freedom.



Splendid effect was obtained by planting one variety of Hybrid Tea Rose. Mme. Caroline Testout in full bloom in June

GORGEOUS. Very double, light yellow blooms, overspread with copper and orange in very vivid hues. Of dwarf, vigorous habit.

GRUSS AN TEPLITZ. Of a rich scarlet, shading to a velvety crimson. A very free grower and in bloom all the time; succeeds well under the most ordinary conditions.

HADLEY. Considered by many as being one of the best garden varieties of its color—a rich crimson, varying to deep velvety crimson. The flowers are well formed and very fragrant. It is a very free and continuous bloomer.

JONKHEER J. L. MOCK. Deep pink, with outer petals rose-white. Large flowers borne on long, stiff stems.

JULIET. The color of this lovely variety is old-gold on the outside of the petals, interior a rich rosy red.

KILLARNEY BRILLIANT. Sparkling cerise-pink in color, shading lighter at the base of petals. A strong, vigorous grower and free bloomer. A wonderful improvement over Killarney.

KAISERIN AUGUSTA VICTORIA. A soft pearly white, faintly tinted lemon in the center. Very fragrant, beautifully formed flowers on long, graceful stems.

LADY ALICE STANLEY. A very much admired variety on account of its delightful fragrance and free-blooming qualities. A beautiful shade of coral-rose, the inside of the petals shading to flesh-pink, with deeper flushes.

LADY ASHTOWN. Pale carmine-pink, shading to golden yellow at the base of the petals. The blooms are large, globular, and well formed, rather higher in the center than at the edge.

LAURENT CARLE. Produces its large, deliciously scented, brilliant carmine flowers throughout the season, nearly as good in hot, dry weather as under more favorable conditions. A vigorous grower.

Price of any of the above varieties, 90 cts. each, $9 per doz., $70 per 100

LOS ANGELES. The following is the originator's description, all of which we fully endorse: "Los Angeles is, by all odds, one of the finest Roses ever introduced. The growth is very vigorous, and produces a continuous succession of long-stemmed flowers of luminous, flame-pink, toned with coral and shaded with translucent gold at the base of the petals. In richness of fragrance it equals in intensity the finest Maréchal Niel. The buds are long and pointed, and expand into a large flower; the color is maintained from the bud until the last petal drops."

LOUISE CATHERINE BRESLAU. Entirely distinct from all the other Roses in color. The buds are coral-red, shaded with chrome-yellow, while the expanded flowers, which are very large and fragrant, are of a lovely shrimp-pink, shaded coppery orange and chrome-yellow.

MISS LOLITA ARMOUR. A beautiful new variety. The flowers are of large size, and as they expand they develop to a deep, coral-red with a golden, coppery red suffusion, the base of the petals a rich golden yellow with coppery red sheen.

MME. BUTTERFLY. A sport of Ophelia, it shows even better growth than this sterling variety, with more and larger flowers of a brilliant pink, suffused apricot and gold. The flowers are of splendid form, good texture, and fragrance.

MME. CAROLINE TESTOUT. Large, globular flowers of bright satiny rose, with deeper center. Very free and fragrant, and one of the most popular and valuable bedding varieties.

MME. EDOUARD HERRIOT. The buds are coral-red in color, shaded with yellow at the base; the medium-sized open flowers, medium double, are coral-red, shaded yellow and bright rosy scarlet, passing to shrimp-red.

MRS. A. R. WADDELL. A lovely colored variety that everyone likes—a delicate, soft, rosy salmon, with a golden sheen. Flowers of medium size; handsome in half-expanded form. A free-flowering garden variety; should be in every collection.

MRS. AARON WARD. Splendidly formed full double flowers, equally attractive when full blown as in the bud state, of distinct Indian yellow, shading lighter toward the edges. Under certain weather conditions the entire flower will sometimes come a yellow tinted white, but it is a beautiful variety under all color variations.

MRS. CALVIN COOLIDGE. The beautiful new Rose named after the good wife of our President, is a sport of that wonderful Rose, Ophelia. Its color is a bright yellow, changing to deep orange as the flower develops. The habit and growth resemble Ophelia.



Radiance Roses

MRS. S. K. RINDGE. A beautiful and distinct Rose that has given general satisfaction. It is of strong, free-branching habit of growth, with dark green, mildew-proof foliage, and long-pointed buds carried erect on stiff stems. Color clear, rich chrome-yellow, which, as flowers mature, becomes suffused with salmon-pink. The flowers are of good size, moderately double, and produced freely and continuously.

OPHELIA. Flowers of perfect form, large size, and a most pleasing delicate tint of salmon-flesh, shaded rose, are borne erect on long, stiff stems. A variety that is exhibited in all Rose collections and flower shows on account of its sterling merit.

PREMIER. A new variety which was introduced as a forcing Rose, but it does well also as a bedding variety. Pure rose-pink in color, of good size and form.

RADIANCE. A brilliant carmine-pink, with salmon-pink and yellow shadings at the base of the petals. A Rose that will withstand the most unfavorable hot summer weather.

RED RADIANCE. A counterpart of Radiance, except in color, which is a clear cerise-red. A most valuable addition to our list of Roses.

ROSE MARIE. Fragrant, clear rose-pink flowers of large size, borne freely on plants of notable vigor and health.

SOUVENIR DE CLAUDIUS PERNET. The new yellow Rose that promises to become what has long been wanted, a hardy everblooming real yellow.

SOUVENIR DE GEORGES PERNET. A strong, vigorous grower, producing large flowers which are beautiful in both bud and fully developed bloom. The color is an intense Oriental red, shading to cochineal-carmine at the margin of the petals, the whole being suffused with a golden sheen. A splendid Rose in every way.

SUNBURST. A beautiful sulphur-yellow variety, the flowers of which stand the sun remarkably well. A very free bloomer and exceedingly beautiful in the bud form.

WILLOWMERE. The color of this lovely variety is perhaps best described as a coral-red in the bud state, opening to a large, full handsome flower of a rich shrimp-pink, shaded yellow in the center and flushed carmine-pink toward the edges of the petals.

Price of any of the above varieties, 90 cts. each, $9 per doz., $70 per 100



Double White Killarney Rose

HARDY HYBRID PERPETUALS



Paul Neyron Roses

Before the wonderful development of the Hybrid Tea Roses, the Hardy Hybrid Perpetual Rose was the most popular type for garden planting, and even now most of the varieties offered are grown by Rose-lovers in conjunction with the other sorts. The collection offered below will be found excellent.

In pruning Hybrid Perpetuals it is advisable to cut away all weak growth, and if quality of bloom is desired, cut back the strong canes to within 8 or 9 inches of the ground, but if quantity of bloom for garden effect is desired leave these canes from 2 to 3 feet high, according to their strength.

FRAU KARL DRUSCHKI. Pure white in color, perfect in form, strong grower and remarkably free flowering.

GENERAL JACQUEMINOT. One of the old favorites and probably the best known Rose in cultivation. Brilliant scarlet-crimson.

GEORGE ARENDS. Long, delicately shaped buds and deep-petaled, pointed blooms of soft pink in its most exquisite shade, delicately scented. Plant is very vigorous, growing to the height of 5 to 6 feet.

HEINRICH MUNCH. This is a wonderful Rose, the blooms are a soft pink, much resembling Frau Karl Druschki, and are borne on plants of great vigor.

MAGNA CHARTA. Bright pink, very large, very double flowers, suffused with carmine; heavily perfumed.

PAUL NEYRON. Perhaps the largest of all; dark rose in color.

SOLEIL D'OR (Golden Sun). A distinct type. A cross between Persian Yellow and a Hybrid Perpetual. Color varies from orange-yellow to reddish gold, shaded with nasturtium-red. Conical-shaped buds opening to large, full, flat-shaped flowers. Perfectly hardy and free blooming.

ULRICH BRUNNER. A good strong grower with large, full flowers, of a bright cherry-red.

Any of the above, field-grown plants, 90 cts. each, $9 per doz., $70 per 100

CLIMBING AND RAMBLER ROSES

We offer on this page a selection of the best modern hardy Climbing and Rambler Roses. Climbing Roses require no pruning in the spring, except the cutting out of very old or dead wood, and the shortening of the laterals and long canes to make the growth conform to the space to be covered; but a severe pruning in July, directly after they have finished flowering, is beneficial. Cutting away at that time all old flowering wood will encourage a vigorous growth, which will give an abundance of flowers the following season.

AMERICAN PILLAR. A single-flowering variety of great beauty. The flowers are of large size—3 to 4 inches across—of a lovely shade of pink, with a clear white eye and cluster of yellow stamens, and are borne in immense bunches.

CLIMBING AMERICAN BEAUTY. A strong, healthy, vigorous grower, frequently making shoots from 10 to 12 feet long, with good-sized flowers for a Climbing Rose that blooms so freely. A pleasing rose-pink of splendid form and substance.

DOROTHY PERKINS. Soft shell-pink, flowering profusely in large clusters; very fragrant and lasting.

CHRISTINE WRIGHT. Very large, cupped but informal flowers of exquisite wild-rose pink, borne in enormous, long-stemmed sprays on a moderately strong climbing plant which produces occasional flowers in summer and fall. **Strong, field-grown plants, $1 each, $10 per doz., $75 per 100.**



Dorothy Perkins Roses

DR. W. VAN FLEET. A Rose which, on account of its dainty color and exquisitely shaped buds and flowers, has become a great favorite. The long, pointed buds are of a rich flesh-pink on stems 12 to 18 inches long. One of the very best of the climbing Roses. Splendid for cutting.

EMILY GRAY. Considered the best yellow rambler. The color is a beautiful shade of golden yellow. Flowers nearly double and carried on strong stems. **Strong, field-grown plants, $1 each, $10 per doz., $75 per 100.**

EXCELSA. A distinct variety in form, color, and habit. It is vigorous in growth, with dark glossy green foliage and the double flowers are produced in large trusses. They are intense crimson-maroon in color.

GARDENIA. Pleasing yellow buds, turning white on opening. Has been, until the introduction of Emily Gray, the nearest dependable yellow of the climbing Roses. Altogether a beautiful and desirable variety on its own merits.

MARY WALLACE. This beautiful new climbing Rose, raised by the late Dr. Van Fleet, and first disseminated by the American Rose Society, under the auspices of the Department of Agriculture, is a beautiful, semi-double bright clear rose-pink, with salmon shadings at the base of the petals. **Strong, field-grown plants, $1 each, $10 per doz., $75 per 100.**

PAUL'S SCARLET CLIMBER. Rosarians generally concede that this is the finest Climbing or Pillar Rose introduced to date. No Rose can compare with it for brilliancy of color—a vivid scarlet which does not bleach or fade throughout the life of the flower. **Strong, field-grown plants, $1 each, $10 per doz., $75 per 100.**

SILVER MOON. Pure white in color, with petals of great substance, beautifully cupped, forming a clematis-like flower. The large bunch of yellow stamens in the center adds to its attractiveness.

TAUSENDSCHON. Large flowers, varying from bud to the open flower through many shades of faint yellow, creamy white and bright rose-pink; slightly fragrant. Enormous trusses.

WHITE DOROTHY. A pure white form of Dorothy Perkins and of stronger growth. Most excellent and an invaluable Rose for masses of white bloom. Long tested and found to do well in most parts of this country.

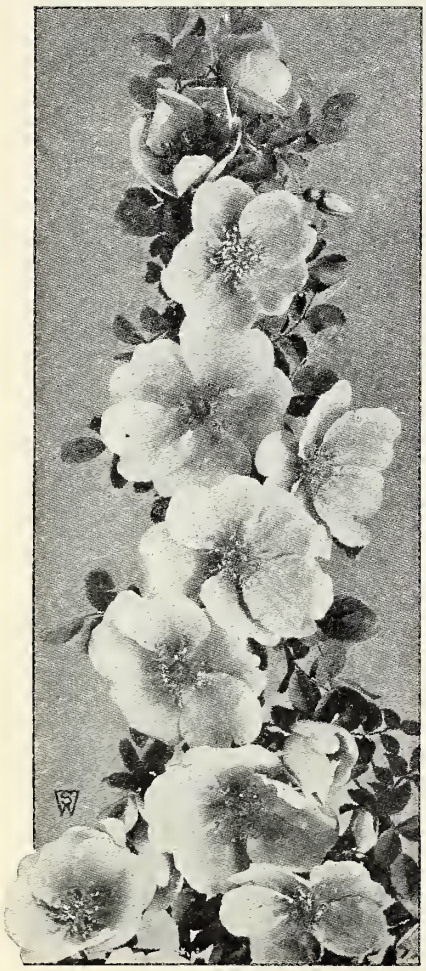
Price, any of the above varieties, except where noted, extra-strong, field-grown plants, 75 cts. each, $7.50 per doz., $60 per 100



Bed of Baby Rambler or Polyantha Roses



F. J. Grootendorst Roses



Hugonis Roses

MISCELLANEOUS ROSES

F. J. Grootendorst, New Hybrid Rugosa Rose

This is a new type of Rose—a cross between Rugosa and the Crimson Baby Rambler. It is not a Rose that you would want to plant in with your bed of Hybrid Teas or Hybrid Perpetuals, but is valuable as an isolated specimen, in masses in a bed, in an exposed position, among shrubs in the shrubbery border, or for an everblooming hedge. It is absolutely hardy and continues in bloom until late in the fall. **$1 each, $10 per doz., $75 per 100.**

Hugonis Rose

This species, recently introduced from China, is unlike any other Rose. It is of a shrub-like habit of growth and naturally forms symmetrical bushes about 6 feet high, and the same in diameter. Valuable for planting in connection with other shrubs or as a single specimen in the garden. Its single, delicate yellow flowers are produced on long, arching sprays early in May, every branch of the previous season's growth becoming lined on both sides to the very tips with the attractive flowers, and after it has finished blooming it remains an attractive decorative shrub for the remainder of the season. Perfectly hardy. **$1 each, $10 per doz., $75 per 100.**

Baby Rambler or Polyantha Roses

This type of Roses forms shapely, compact, bushy specimens, most of the varieties growing about 1½ feet high. They begin blooming early in June and bear their immense trusses of small flowers until cut down by frost. They are fine for garden decoration, and their miniature flowers are excellent for cutting as well. This type of Roses requires no spring pruning; the flower-stems of the previous season need only be removed.

Cecile Brunner (Sweetheart Rose). This Polyantha has dainty, double, little flowers of perfect form, produced in many-flowered, graceful sprays Color a soft rosy pink on a rich creamy white ground.

Orleans. A very striking variety, with large, brilliant geranium-red flowers, becoming suffused with rose as they mature, and having an attractive white center.

Ellen Poulsen. A newer variety of Baby Rambler, bearing very freely of its dark brilliant pink flowers.

Miss Edith Cavell. Blooms a very pretty shade of deep carmine-pink, changing to carmine-red; very free-flowering variety.

Mrs. W. H. Cutbush. Medium-sized blooms of a bright rosy pink in heavy clusters. Plant strong and very vigorous.

Price, any of the above varieties, 75 cts. each, $7.50 per doz., $60 per 100

Moss Roses

Moss Roses derive their name and beauty from the delicate mossy covering which surrounds the buds and gives the opening flowers a rather unique appearance. These Roses should be pruned sparingly; cut out the old wood and cut back the growth of the previous year.

Blanche Moreau. Large, pure white.

Crested Moss. Rose; beautifully crested.

Henri Martin. Fine crimson; vigorous.

Princesse Adelaide. Silvery rose; large.

Price, any of the above varieties, 75 cts. each, $7.50 per doz., $60 per 100



Planting of Japanese Irises

GERMAN IRIS

Iris germanica

We list thirteen of the best modern varieties, also the Siberian. This variety does not belong to the Germanica family. It is the most delicate and elegant of all the small-flowered Irises. The foliage is narrow, grassy-like, with tall stems; the flowers resemble somewhat, in form, the bulbous Iris listed in our catalogue as Spanish. It is splendid as a cut-flower and a very free-blooming variety.

AUREA. Rich chrome-yellow. The finest pure yellow. **30 cts. each, $3 per doz., $20 per 100.**

FAIRY. Standards and falls white, delicately bordered and suffused soft blue. Very beautiful. **30 cts. each, $3 per doz., $20 per 100.**

GRACCHUS. Standards clear yellow; falls crimson, reticulated white. A very conspicuous variety. **30 cts. each, $3 per doz., $20 per 100.**

KHEDIVE. Standards beautiful soft lavender, falls white, veined brown. **30 cts. each, $3 per doz., $20 per 100.**

LENT A. WILLIAMSON. Standards lavender-violet; falls royal purple. Large flowers on strong, stout stems. **60 cts. each, $6 per doz., $40 per 100.**

MOTHER OF PEARL. A uniform soft lavender with a faint creamy undertone. Large flowers of exceptional substance and perfect form. The finest new Iris. **$1 each, $10 per doz., $60 per 100.**

PALLIDA, ALBERT VICTOR. Standards soft blue, falls beautiful lavender. **30 cts. each, $3 per doz., $20 per 100.**

PAULINE. Standards and falls are a rich pansy-violet. A variety of decided perfume. **20 cts. each, $2 per doz., $15 per 100.**

PERFECTION. Standards light blue; falls dark violet. A very free-flowering variety and an excellent one for the garden. **40 cts. each, $4 per doz., $30 per 100.**

PRINCESS VICTORIA LOUISE. Standards sulphur-yellow, falls rich plum, bordered cream. **30 cts. each, $3 per doz., $20 per 100.**

QUAKER LADY. Standards are a smoky lavender with yellow shadings; falls blue and gold. **35 cts. each, $3.50 per doz., $25 per 100.**

QUEEN ALEXANDRA. Standards fawn, shot with lilac, falls bronze, yellow beard. **30 cts. each, $3 per doz., $20 per 100.**

RHEIN NIXE. A variety with snowy white standards and falls of violet-blue. **35 cts. each, $3.50 per doz., $25 per 100.**

SIBERIAN BLUE. Clear sky-blue. While not of a German Iris type, flowers same time and is a wonderful border variety. **30 cts. each, $3 per doz., $20 per 100.**

JAPANESE IRIS

Iris Kaempferi

The Japanese Irises usually flower after the German. They are much admired on account of their variety of color and large size. We offer twelve distinct varieties. Six-petal varieties are termed double; three-petal varieties, single.

Azure. Double. Immense flower of mauve-blue with a darker halo surrounding the yellow blotch at base of petals.

Choseidan. Double. Ruby-crimson, marked white and yellow.

Gold Bound. Double. Pure white. One of the best.

Grace Sperling. Single. Hortense-violet; petaloid stigmas light Hortense-violet. Very early. Extra fine.

Kamata. Single. Sky-blue, veined white.

La Favorite. Double. White, veined blue; purple center.

Mrs. George Stumpp. Single. White, with a cast of blue.

Painted Lady. White center, blotched light purple.

Red Riding Hood. Single. Amaranth, veined and suffused white.

Rose-Anna. Double. Ivory-white, heavily veined ruby-red.

Templeton. Double. Light violet, mottled reddish pink and white.

Violet Beauty. Single. White and pale Hortense-violet.

Any of the above varieties, 50 cts. each, $5 per doz., $35 per 100



HERBACEOUS PEONIES

Peonies rank among the most beautiful of all hardy perennials, and no garden is complete without their charming influence. The popular interest in many parts of the world has brought a very gratifying improvement in the Peony. In the newer sorts gigantic flowers have been produced, reaching, in many instances, the large size of 7 to 9 inches in diameter and 5 to 6 inches in depth, with strong, stiff stems 2½ to 3 feet long. The permanency of Peonies should especially recommend them to your favor; for, once planted in suitable soil, they will continue to grow better and larger each year. A situation well open to the sun suits them best but they thrive in partial shade also.

Culture.—The culture of Peonies is quite simple. They require a good, deep, rich soil and an abundant supply of water during the growing season. When enriching the ground, the use of too much fresh manure near the roots should be avoided. The main point to observe is, while the ground should be well spaded and cultivated, **not to plant the roots too deep.** The roots should be planted so that the eyes are barely covered (about 1 to 2 inches). Too deep planting is the cause of shy flowering.

Size of Roots.—The roots we offer have been grown two years from root divisions. If planted during April or May these roots should become well established and give some flowers the following year.

COMTE DE DIESBACH. Medium size; rich dark red, splendid grower; free bloomer; early. **50 cts. each, $5 per doz.**

COURONNE D'OR. (Calot 1872.) Large, flat, semi-rose type; pure white, with a ring of yellow stamens around a tuft of center petals, tipped with carmine. Medium tall; splendid grower: free bloomer. Late. One of the best white varieties. **75 cts. each, $7.50 per doz.**

DUCHESSE DE NEMOURS. (Calot 1856.) Medium size; pure white crown, sulphur-white collar, no crimson flecks; fragrant. Vigorous grower; medium height; very free bloomer. Early. Extra good commercial variety. Two days later than Festiva Maxima. **75 cts. each, $7.50 per doz.**

DUKE OF WELLINGTON. (Calot 1859.) Large; bomb type, with white guards and sulphur center. Medium tall; vigorous grower; free bloomer. Late. **75 cts. each, $7.50 per doz.**

EDULIS SUPERBA. (Lemoine 1824.) Large; loose, flat crown; bright mauve-pink collar mixed with narrow lilac. Early. Strong, upright; free bloomer. One of the best commercial pinks for Decoration Day. **50 cts. each, $5 per doz.**

FELIX CROUSSE. (Crousse 1881.) Large; globular; typical bomb; brilliant red. Strong, vigorous grower; medium height; free bloomer. One of the best reds. **75 cts. each, $7.50 per doz.**

FESTIVA MAXIMA. (Miellez 1851.) Very large; globular, rose type; pure white center, prominently flecked crimson, outer petals sometimes faint lilac-white on first opening. Very tall, strong, vigorous grower. Early. The most popular white variety for cut-flowers. **60 cts. each, $6 per doz.**

FLORAL TREASURE. Large, globular shape; medium tall grower; rich, soft pink. **50 cts. each, $5 per doz.**

FRANCOIS ORTEGOT. (Parmentier 1850.) Dark amaranth-red. Loose; medium height. Midseason. **50 cts. each, $5 per doz.**

LA SUBLIME. (Parmentier 1850.) Bright rich crimson; fragrant. Tall; very fine. **50 cts. each, $5 per doz.**

LA TULIPE. (Calot 1872.) Very large; flat, semi-rose type; lilac-white, outer guard petals striped crimson; fragrant. Tall, strong grower; free bloomer. Late midseason. A good Peony on account of growth and general habit. **75 cts. each, $7.50 per doz.**

LADY BRAMWELL. Midseason; medium grower; silvery pink. **50 cts. each, $5 per doz.**

LOUIS VAN HOUTTE. (Calot 1867.) Medium size; semi-rose type; deep carmine-rose, tipped silver, with fiery reflex—very brilliant coloring; fragrant. Medium height and habit. Late. **50 cts. each, $5 per doz.**

MME. CROUSSE. (Calot 1866.) Medium size; globular crown; pure white, center flecked crimson. Strong; medium height; free bloomer. Midseason. **75 cts. each, $7.50 per doz.**

MONS. JULES ELIE. (Crousse 1888.) Very large; medium compact high crown; pale lilac-rose, collar lighter shaded amber-yellow at the base. Medium height; strong growth. Early. Extra. **$1 each, $10 per doz.**

PRINCE IMPERIAL. (Calot 1859.) Very large, loose, semi-rose type; amaranth-red; tall, very strong grower; medium bloomer. Late midseason. **50 cts. each, $5 per doz.**

QUEEN VICTORIA. Whitleyi. Large full, compact bloom, with collar of flesh-white, fading to white, center petals flaked with red. Very strong grower; medium height; very free bloomer. The standard market variety for storage. **50 cts. each, $5 per doz.**

RICHARDSON'S DORCHESTER. (1870.) Large, compact, rose type; pale hydrangea-pink. Fragrant. Medium dwarf; upright; free bloomer. **$1 each, $10 per doz.**

RICHARDSON'S GRANDIFLORA. (1883.) Very large, flat rose type. Uniform rose-white. Tall, erect, strong grower. Very late. Perhaps the most valuable late variety of its color. **$1 each, $10 per doz.**

ROSA SUPERBA. Brilliant deep cerise-pink blooms; compact and perfectly formed. Healthy growth. Long stems. Midseason. **60 cts. each, $6 per doz.**



A border planted with Hardy Phlox, when established, makes a beautiful display

HARDY PHLOX

The Hardy Phloxes are, without doubt, the most important of all hardy perennials, and are now to be found in nearly every garden. They succeed in almost any kind of soil or position, and flower from early summer until late in the fall. They also improve from year to year, and contain a range of brilliant colors not found in any other hardy plant. We have a very fine collection of them.

CULTURE.—Hardy Phlox may be planted in spring or fall; a mulch of old manure thrown around the roots will be of benefit to the plants. Phlox should be set out 18 inches apart, and if kept well watered will produce both individual blossoms and heads of bloom far larger than otherwise, and amply repay the extra trouble. To procure best effects, plants should be massed in from six to twelve clumps of each variety.

Twelve Superb Hardy Phlox

Our plants are choice divisions from field-grown plants which we have found to give excellent satisfaction.

Albion. A vigorous-growing variety; pure white, with a pale pink eye.
Australia. A comparatively new Phlox bearing immense florets. Color, a remarkable shade of crimson-purple.
Bridesmaid. Pure white with large crimson center.
Elizabeth Campbell. Large soft pink. 40 cts. each, $4 per doz., $30 per 100.
La Vague. Florets of moderate size, borne in large trusses. Soft pink.
Obergartner Reichenau. Extra-large flowers of bright rose. Strong, compact grower; extra-heavy foliage.
Rynstroom. Dark salmon rose. Easily one of the finest Phlox of its color.
Rheinlander. A beautiful salmon-pink the center of each floret relieved with a distinct carmine-crimson eye. Blooms and trusses very large size.
Selma. A clear, bright rose, highly relieved with a distinct carmine-crimson eye. One of the best of all the Phloxes of this color.
Vesuvius. A dwarf Phlox bearing large trusses of bright fiery crimson flowers. Height 1½ feet.
Wanadis. Immense trusses with large individual florets. Delicate lilac shade with bluish purple eye.
Wida. Exquisite two-toned color. Lavender, rayed with white.

Price of the above varieties, except Elizabeth Campbell, 30 cts. each, $3 per doz., $20 per 100

Early-flowering Hardy Phlox (*Phlox suffruticosa*)

Miss Lingard. A grand variety, which begins flowering after the middle of June and continues throughout the season. Large white flowers, with pale pink eye. Extensively used for cut-flowers. 30 cts. each, $3 per doz., $20 per 100.

TRITOMA PFITZERI

The greatest bedding plant ever introduced, surpassing the finest cannas for attractiveness and brilliancy, equal to gladiolus as a cut-flower, and blooms incessantly from June until December, regardless of frost. Plants are perfectly hardy in the open ground all winter south of Philadelphia; further north they must be protected or wintered in a cellar like the ordinary Tritoma. Just bury the roots in sand. Should be planted out early in spring, and will commence growth and bloom at once, growing larger and finer every day. **$4 per doz., $30 per 100.**



Tritoma Pfitzeri



Ampelopsis Veitchii



Clematis Jackmanii



Clematis paniculata



Euonymus radicans vegeta

HARDY CLIMBING PLANTS

AKEBIA QUINATA (Akebia Vine)

A very graceful, hardy climber, with small, deep green foliage, producing in early spring bunches of violet-brown flowers which have a pleasant cinnamon odor. Strong plants, 50 cts. each, $5 per doz.

AMPELOPSIS Sometimes called Boston Ivy and Japan Ivy

Veitchii. This is the most deservedly popular of all climbing plants, being entirely hardy in the most exposed places and attaining a height of 30 feet in two or three years; clings to stones, brick or woodwork with the greatest tenacity. During the summer the leaves are a rich shade of green and lap over each other with great regularity, like a coat of mail or like slates on a roof. But it is in the fall that it shows its exquisite beauty. The leaves then change to the brightest tints of scarlet, crimson and orange, so dazzling as to be seen at a great distance. Extra strong field-grown plants, 75 cts. each, $7.50 per doz., $50 per 100.

Quinquefolia (Virginia Creeper; American Ivy). This well-known climber is one of the best and quickest growing varieties for covering trees, trellises, arbors, and the like. The large, deep green foliage assumes brilliant shades of yellow, crimson and scarlet in the fall. Strong field-grown plants, 75 cts. each, $7.50 per doz., $50 per 100.

ARISTOLOCHIA SIPHO

Dutchman's Pipe Vine

A vigorous and rapid-growing climber, bearing brownish colored flowers which resemble a pipe in shape. This plant is, however, more admired for its light green leaves, which retain their color from early spring until the fall. Strong plants, $1 each, $10 per doz., $75 per 100.

BIGNONIA RADICANS

Scarlet Trumpet Vine

For covering unsightly places, stumps, rockwork or planting in crevices in ledges, the Bignonias will be found very useful. The flowers are large, attractive and showy, and borne profusely when the plant attains a fair size. 50 cts. each, $5 per doz., $40 per 100.

CELASTRUS SCANDENS

Bittersweet or Waxwork

One of our native climbing plants of rapid growth, succeeding in almost any situation, sun or shade, with attractive light green foliage and yellow flowers during June, followed in the autumn by bright orange fruit which usually remains on the plant throughout the winter. Strong plants, 50 cts. each, $5 per doz., $40 per 100.

POLYGONUM AUBERTI (Silver Lace Vine)

One of the most desirable flowering climbers. The plant is of strong, vigorous growth, attaining the height of 25 feet or more, and producing through the summer and fall great foamy sprays of white flowers. Strong plants, $1 each, $10 per doz., $75 per 100.

CLEMATIS

The Clematis we offer this season are exceptionally fine, strong 2-year-old plants. We have reduced the number of varieties to such sorts as, from experience, we know to succeed best in our climate. Many failures are the result of too shallow planting. The crown of the roots should be set at least 3 inches below the surface of the soil.

Paniculata (*Japanese Virgin's Bower*). This handsome hardy climber is one of the choicest and most satisfactory climbing flowering plants we know. The plant is of strong, rapid growth, with small, dense, cheerful green foliage, giving it a grace and elegance possessed by no other hardy climber. The flowers appear in the greatest profusion during August, and continue until late in the fall, are white in color and most deliciously fragrant. The plant succeeds in almost any position; not only is it well adapted to run up all kinds of supports, but is just as useful for planting among rockwork, sloping banks, covering graves, or, in fact, in any position where a graceful vine is desired. Strong, field-grown plants, 75 cts. each, $7.50 per doz., $50 per 100.

Jackmanii. The best known and most valued variety of this popular family. A perfect mass of bloom when in full flower. Color, dark, rich, royal purple. Strong, field-grown plants, $1 each, $10 per doz., $75 per 100.

Henryi. Pure white; large and remarkably handsome. Strong, field-grown plants, $1 each, $10 per doz., $75 per 100.

Ville de Lyon. Bright red, well-formed flowers; a very fine variety. Strong, field-grown plants, $1 each, $10 per doz., $75 per 100.

EUONYMUS

Radicans. This trailing form of Euonymus is particularly desirable for its dense deep green evergreen foliage. It is extremely hardy and useful for covering low foundation walls or may be clipped the same as boxwood for an edging plant. Strong, field-grown plants, 75 cts. each, $7.50 per doz., $50 per 100.

Radicans vegeta (Evergreen Bittersweet). A strong-growing variety with larger leaves than the preceding, producing bright orange-red berries which remain on the plant the greater part of the winter. As a hardy evergreen plant for wall-covering, this variety is unequaled. Strong plants, $1 each, $10 per doz., $75 per 100.

HONEYSUCKLE

Halliana (Hall's Japan Honeysuckle). A strong, vigorous, almost evergreen sort; white flowers changing to yellow; very fragrant; flowering from July to December; holds its leaves nearly all winter. Extra-selected plants, 50 cts. each, $5 per doz., $40 per 100.

Scarlet Trumpet Honeysuckle. This and its varieties are the handsomest in cultivation. It is a strong, rapid grower and produces scarlet, inodorous flowers. 50 cts. each, $5 per doz., $40 per 100.

WISTERIA

Sinensis (Chinese Wisteria). A most beautiful climber of rapid growth. When well established it makes a growth of 15 to 20 feet in a season. Flowers pale blue. Extra-strong plants, 75 cts. each, $7.50 per doz., $60 per 100.

Sinensis, White. A white-flowering form of the above. Strong plants, 75 cts. each, $7.50 per doz., $60 per 100.



Abelia grandiflora



Flowering Almond



Althea



Deutzia gracilis



Calycanthus floridus



Buddleia



Berries of Cornus sibirica

Hardy Flowering Shrubs

Shrubs are of great importance for the ornamentation of home-grounds. They have many uses; some are valuable as cut-flowers, while others are as decorative as any ornamental foliage plant. They may be used as a dividing-line between the flower and vegetable-garden, or between the lawn and the uncultivated land beyond, as a background for the flower border, and for hiding an unsightly building, fence or foundation. Soil where they are to be planted should be well spaded and enriched with bone-meal. Unless a very immediate effect is required, sufficient space should be allowed between them to permit of full development—3 feet for dwarf varieties and 5 feet for the taller ones. As a general rule, shrubs should be thinned or pruned just after they have finished flowering, and then only slightly, just enough to keep them in nice, symmetrical shape.

NOTICE. **The best time to plant is from early spring, when ground can be worked, until about May 15, the earlier the better.**

Abelia grandiflora

This, to our minds, is one of the finest of all the shrubs, and should be in every foundation planting. The habit and foliage is distinctly ornamental, and it blooms almost continuously from early summer until frost. The flowers are white, tinted lilac, and are produced so freely as to almost entirely cover the plants. **Strong plants, 75 cts. each, $7.50 per doz., $60 per 100.**

Almond, Flowering

Amygdalus

This beautiful shrub is one of the loveliest. The flowers are borne on its slender branches during May, and are very fragrant.

Pink. Double-flowering; pink.
White. Double-flowering; white.

Strong plants, 2 to 3 feet, $1 each, $10 per doz.

Althea (Rose of Sharon)

The Altheas are among the most valuable of our tall, hardy shrubs on account of their late season of blooming, which is from August to October, a period when few shrubs are in flower. They are extensively used as hedge plants, for which they are admirably adapted. We offer in four distinct colors. **Red, Pink, White,** and **Purple. Strong plants, 2 to 3 feet, 75 cts. each, $7.50 per doz.**

Azalea Hinodigiri

This beautiful plant is considered one of the brightest of the Azaleas. It makes a little lower plant than the class, and in May is thickly covered with bright carmine-red. One of the finest Azaleas and should be in every foundation planting. **Selected, well-formed plants, 12 to 15 inches high, $3.25 each, $32.50 per doz.**

Calycanthus

Floridus (Sweet or Strawberry Shrub). A very pretty shrub flowering during May. The flowers are double, chocolate-colored, and strawberry scented. **Strong plants, 2 to 3 feet, 75 cts. each, $7.50 per doz.**

Buddleia variabilis Veitchiana

Butterfly Shrub, Summer Lilac

One of the most desirable of summer-flowering shrubs, beginning to bloom in July and continues until cut down by severe frost. The flowers are of a pleasing shade of violet-mauve, and are borne in dense, cylindrical spikes from 12 to 15 inches in length by 3 inches in diameter. It succeeds everywhere, and flowers the first season it is planted. The plant dies down in winter, coming up the following spring. **Strong plants, 75 cts. each, $7.50 per doz.**

Deutzias

Well-known, profuse-flowering shrubs blooming in early summer. The Deutzias succeed well in any sunny position, and should find a place in every flower garden.

Gracilis. A great favorite, dwarf, covered with spikes of pure white flowers in early summer. **Strong plants, 1½ to 2 feet, 75 cts. each, $7.50 per doz.**

Pride of Rochester. A fine, tall-growing, double, white-flowering variety. **Strong plants, 2 to 3 feet, 75 cts. each, $7.50 per doz.**

Dogwood (Cornus)

This is a very well-known shrub. The flowers appear in May, before the foliage. In autumn it takes on a rich crimson shade, and is most effective at that time. This is the shrub variety of Dogwood and should not be confused with the Dogwood Tree.

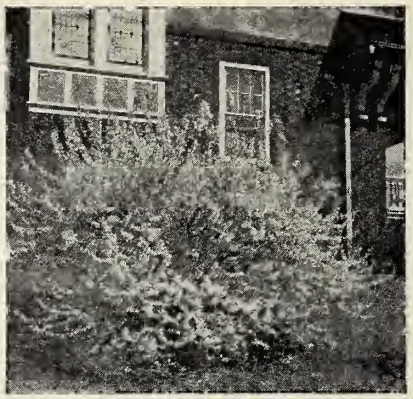
Sibirica (Siberian Dogwood). A strong-growing variety with white flowers. The branches are crimson colored in winter. **Strong plants, 2 to 3 feet, 75 cts. each, $7.50 per doz.**

Euonymus alatus (Corkbark)

A shrub different in character from all others. It is particularly ornamental and interesting on account of its curious corky bark. The small flowers of spring are followed by attractive red berries in the fall. The foliage turns to bright scarlet in the fall and its appearance is most pleasing at that season of the year. **Strong plants, $1.50 each, $15 per doz.**



Hydrangea paniculata grandiflora



Forsythia viridissima



Hydrangea arborescens



Kerria japonica



Fruits of Tartarian Honeysuckle



Philadelphus coronarius

Exochorda grandiflora

Pearl Bush

A medium-sized shrub, bearing white flowers in slender racemes in early spring. Very graceful and useful for cut-flowers. **Strong plants, $1 each, $10 per doz.**

Forsythia

A very decorative shrub with bright golden yellow, star-shaped flowers which burst into bloom at the beginning of spring while the bush is otherwise bare.

Suspensa (Weeping Golden Bells). A tall shrub of willowy growth, the branches gracefully arching and covered with golden yellow bells in early spring.

Viridissima (Golden Bells). Similar to the above but of more erect habit.

Strong plants of either of the above, 2 to 3 feet, 75 cts. each, $7.50 per doz.

Honeysuckles (Bush Honeysuckles)

We offer two varieties of the Bush Honeysuckles. They are splendid for lawn or border planting.

Tatarica (Tartarian Honeysuckle). Pink flowers, contrasting beautifully with the foliage. Blooms in June.

Tatarica alba. White form of the above.

Either of the above, strong plants, 2 to 3 feet, 75 cts. each, $7.50 per doz.

Hydrangea

We offer two varieties of this, perhaps the most popular of flowering shrubs.

Arborescens grandiflora (Snowball Hydrangea). This magnificent, perfectly hardy American shrub has snow-white blossoms of largest size. One of its most valuable characteristics is its coming into bloom just after the passing of all the early spring-blooming shrubs, flowering from early June to late July. **Strong plants, 75 cts. each, $7.50 per doz.**

Paniculata grandiflora. Considered the most popular summer-flowering shrub. The flowers, which are borne in dense, pyramidal panicles a foot long, in greatest profusion, are white when they first open but gradually change to rose color, and remain in good condition for weeks. **Strong plants,** 75 cts. each, $7.50 per doz.

Kerria (Corchorus)

One of the most graceful and beautiful of the lower-growing shrubs for the front of a shrubbery border, or in a mixed planting of low shrubs around porches.

Japonica. Attractive golden yellow flowers are borne continuously from June to October. **Strong plants, $1 each, $10 per doz.**

Philadelphus

Mock Orange

This old-fashioned sweet-scented shrub has long been a close rival of the lilac in popularity.

Coronarius (Garland Mock Orange). This is a popular tall variety, refined and beautiful, large white flowers. **Strong plants, 75 cts. each, $7.50 per doz.**

Coronarius foliis aureis. The golden-leaved Garland Mock Orange. **Strong plants, 75 cts. each, $7.50 per doz.**

Pyrus japonicus

Japan Quince

A very showy and popular shrub of medium height, which blooms profusely in early spring; flowers dazzling scarlet. Makes an excellent hedge-plant. **Strong plants, $1 each, $10 per doz.**

Prunus

We offer two varieties of the Flowering Plum.

Pissardii (Purple-leaved Plum). A dwarf shrub covered with single white flowers in spring. When they first appear the leaves are a lustrous crimson, changing to rich purple.

Triloba (Double-flowering Plum). An interesting shrub, of medium height, bearing in early spring semi-double, delicate pink flowers over an inch in diameter.

Either of the above, strong plants, $1 each, $10 per doz.

Spiræa

Anthony Waterer. A valuable variety. Color bright crimson. It is of dwarf, dense growth, never exceeding 30 inches in height and blooms the entire summer and fall, if the old flower-heads are removed.

Van Houttei. Extremely popular. The grandest of all the white Spireas. It is of compact habit and a beautiful ornament for the lawn at any season, but when in flower is a very beautiful sight, the white blooms almost entirely covering the foliage.

Either of the above, strong plants, 75 cts. each, $7.50 per doz.

Symphoricarpos racemosus

Snowberry

A well-known dwarf shrub with pink flowers and white berries that hang on the greater part of the winter. **Strong plants, 75 cts. each, $7.50 per doz.**

Symphoricarpos vulgaris (Red-fruited or Indian Currant). Similar to the above, but with bright red fruit. **Strong plants, 75 cts. each, $7.50 per doz.**



Spiræa Van Houttei



Pyrus japonicus



Viburnum plicatum

Syringa, or Lilac

We offer two of the common varieties of Lilac, but will be pleased to correspond with our customers who are desirous of growing the better named varieties.

Common Purple (*Syringa vulgaris*). Purple.
Common White (*S. vulgaris alba*). White.

Either of the above, strong plants, 75 cts. each, $7.50 per doz.

Viburnum

Plicatum (Japan Snowball). One of the choice hardy shrubs, with healthy dark green foliage. The perfect balls of pure white flowers are borne in great profusion in May. **Strong plants, $1 each, $10 per doz.**

Opulus (High-Bush Cranberry). The white flowers in June are followed in autumn by bright scarlet berries, which are very attractive until late in winter. **Strong plants, 75 cts. each, $7.50 per doz.**

Tamarix

Africana. Strong, slender, tall-growing shrub of irregular habit, with feathery foliage and small, delicate flowers, borne profusely on gracefully bending branches. The pink flowers are very attractive during May. **Strong plants, 2 to 3 feet, 75c. each, $7.50 per doz.**

Weigelas

These easily take rank among the most popular flowering shrubs, covered, as they are, in May and early June by their large, trumpet-shaped flowers.

Eva Rathke. Considered the finest Weigela in cultivation, blooming continuously throughout the summer and autumn. The flowers are a rich ruby-carmine.

Rosea. Soft rosy carmine.

Either of the above, strong plants, 75 cts. each, $7.50 per doz.



Common Lilac



Snowberry

RHODODENDRONS

It is a source of much pleasure to know that the beautiful Hybrid Rhododendrons which we formerly largely imported from England and Holland in young plants, previous to the Federal Quarantine, are now being produced by a Hollander in this country. He has started their culture in the United States and we are pleased to offer four fine varieties of this beautiful evergreen shrub, without which few plantings are complete.

Amphion. Very large truss; clear pink with white eye.
Catawbiense album. Pure white.
Charles Dickens. Brilliant red.
Mrs. C. S. Sargent. Large flower; clear pink.

Price, well-shaped plants 12 to 15 inches high, $6 each, $60 per doz.

HEDGE PLANTS

We offer two of the principal shrubs that are extensively used for Hedge Plants

Berberis Thunbergii

Japan Barberry

Where a dwarf, deciduous hedge is wanted, nothing equals this beautiful Barberry. It requires but little pruning to keep it in shape. The leaves are small, light green, and towards fall assume rich, brilliant colors, the fruit or berries becoming scarlet. It is used extensively throughout the country and is perfectly hardy. **Extra-strong, 1½ to 2 ft., 4 to 6 branches, packed in bundles of 10 or 25 at $4 for 10, $7.50 for 25, $25 per 100.**

California Privet

Ligustrum ovalifolium

This is, perhaps, the most popular of all the hedge plants. Being absolutely hardy, it increases in beauty with each successive year. To get best results, plants should be set 1 foot apart in double rows in zigzag fashion, so that the plants are diagonally opposite each other. This practically places them 6 inches apart, which is desirable to get quick, dense growth. May be planted from March 15 to May 15, or from October to frost. The Privet which we are offering is grown specially on contract for us and is selected and well-graded plants. This is the best size to plant and is in the most vigorous condition. It will immediately establish itself. **Extra-strong, 2 ft., $1.50 for 25, $5 per 100, $45 per 1,000.**



Weigela, Eva Rathke

GRAPE-VINES

We receive many flattering testimonials as to the quality of our Grape-vines.

Selected vines, except where noted, 75 cts. each, $8.50 per doz.; extra-strong, $1.25 each, $12.50 per doz.

White Grapes

Diamond. White. Bunch large, compact, shouldered; berries large, round; skin thin, but tough; flesh tender, juicy, with but little pulp. Vine is a good grower, with thick, healthy foliage; hardy and productive; of fine quality. Ripens a little before Concord.

Niagara. White. Bunch very large and handsome, often shouldered; compact; berries large, round; skin thin, tough, does not crack, and carries well; has not much pulp when fully ripe; melting, sweet, with a flavor and aroma peculiarly its own, and agreeable to most tastes; ripens with Concord.

Pocklington. Pale green, usually with tinge of golden yellow where exposed to the sun; bunch large, very compact; berries very large, covered with a beautiful white bloom; flesh juicy, sweet, with considerable pulp.

Red Grapes

Agawam. Red or maroon. Bunch usually loose, shouldered; berries large; skin thick; flesh pulpy, meaty, juicy, of a rich, peculiar aromatic flavor; ripens about with Concord; a good keeper. Vine a strong, rank grower, hardy and productive; should be pruned, leaving long canes.

Brighton. Red. Bunch medium to large, long, compact, shouldered; berries medium; skin thin; flesh tender, sweet, with scarcely any pulp; quality best. Vine a vigorous grower, healthy, hardy and productive; one of the best early red Grapes. The flowers have reflexed stamens and do not always fertilize fully unless planted with Concord, Worden, Martha, or other varieties which blossom at the same time. Ripens with Delaware.

Catawba. Dark red when fully ripe. Bunch large, moderately compact, shouldered; berries medium to large; skin thick, tough; flesh somewhat pulpy, with rich, vinous flavor, of best quality for both table and wine. Vine a good grower, hardy, with healthy foliage; very productive and profitable where it succeeds and matures well. Ripens too late for high latitudes.

Delaware. Red. Bunch small, compact, sometimes shouldered; berries small; skin thin, but firm; flesh juicy, very sweet and refreshing, of best quality for both table and wine; ripens with Concord or a little before. Vine hardy, productive, a moderate grower; requires rich soil and good culture. Is regarded by many as the best American Grape, all things considered. It should be in every garden and vineyard.

Lucile. Red. Very large in bunch and berry; compact; skin thin but tough. Good shipper; exceedingly productive. Flesh pulpy, sweet, somewhat foxy.

NEW GRAPES

Hubbard. Black. Quality sweet and delicious, having that fine and pleasant flavor approaching the European or Vinifera Grapes. Seeds few and small, separating freely from the tender pulp. Skin thin and firm. Berries and bunch large and uniform. Ripens about 10 days earlier than Concord.

Portland. White. Earliest of all. Large bunch and berry. Resembles Niagara but is superior in quality. Fruit sweet, juicy, and of fine flavor. Vigorous and healthy grower.

Caco. A new variety originating in Delaware. The fruit is large, and in color a rich wine-red over amber. Flavor is luscious, sweet, and delightfully distinctive. Vines are strong and vigorous.

2-yr., first-class Vines, $1.50 each, $12 for 10, delivered by parcel post

VINEYARD BONE FERTILIZER. Very coarse. Ideal for giving proper nourishment to grape vines. 100 lbs. $5.50 500 lbs. $25. ton, $85.



Niagara Grapes

Black and Blue Grapes

Concord. Black. Early. Decidedly the most popular Grape in America, and deservedly so. Bunch large, shouldered, compact; berries large, covered with a rich bloom; skin tender, but sufficiently firm to carry well to distant markets; flesh juicy, sweet, pulpy, tender. Vine a strong grower, very hardy, healthy and productive. For general cultivation the most reliable and profitable variety.

Eaton. Black. Similar in foliage to Concord. In growth, health, and hardiness of vine, in every respect its equal, while in size of bunch and berry it is much larger and more attractive. Leaf large, thick, leathery, covered on the under side with a thick brownish yellow down. Bunch very large, compact, double shouldered; berries very large, many 1 inch in diameter, round, black, covered with a heavy blue bloom, adheres firmly to the stem; skin thin, but tough; pulp tender, separating freely from the seeds and dissolving easily in the mouth; very juicy. Ripens with Concord or a little earlier.

Moore's Early. Black. Bunch rarely shouldered; not quite so large as Concord; berries larger and very much like it in flavor and quality. Vine a moderate grower; very healthy and hardy; foliage thick, leathery, somewhat resembling Concord, except on the under side, which is covered with a yellowish brown down. Produces a fair, and, with high cultivation, a heavy crop. Ripens so early as to be nearly out of market before Concord is ripe and is, therefore, a very popular early market variety. Succeeds best in rich soil.

Worden. Black. Bunch large, sometimes shouldered, compact; berries very large, skin thin. Superior to the Concord in the following points: It is better in quality, has a larger berry, a more compact and handsome cluster, and ripens five to ten days earlier.

CHOICE SMALL FRUITS

We cannot ship CURRANTS and GOOSEBERRIES outside of New York State due to the Federal Quarantine on account of the white pine blister rust.

We have endeavored to list only the choicest sorts and, while our list is a short one, only the finest sorts are offered. This is preferable to a long list which would necessarily contain varieties of less merit.

SHIPPING SEASON APRIL AND MAY



Wilder Currants

CURRANTS

Plant in rows 6 feet apart, and 4 feet apart in the rows, or, if to be cultivated both ways, 5 feet apart each way. The soil should be well cultivated to a depth of 12 inches. Plants should be well set and roots firmed in the soil. After planting cut back the tops one-half of the previous year's growth. For the first 4 or 5 years some of the wood made in the spring should be cut back in the fall, in order to make a more symmetrical plant and a greater number of fruit-buds. Rotted stable manure around base of plant forked in each fall will prove very beneficial.

Selected 3-year-old stock, 50 cts. each, $5 per doz., $40 per 100

Wilder (President Wilder). Bush upright, vigorous; clusters above medium length; berries averaging large; bright red; excellent, with a mild subacid flavor. Ripens early and remains bright and firm until very late. Because of its exceedingly vigorous growth, great productiveness, high quality, and remaining good so long after ripening, we recommend this as one of the best Red Currants, both for table and market.

White Transparent. Bush vigorous and very productive; clusters large; berries very large, sweet and most delicious. This is the best of the White Currants, and fine for the table. Equally desirable as a market Currant.

Red Cross. Quality is good and the size of berries uniform. The red clusters are large, making it easy to pick. It makes abundant wood-growth and is not much bothered by borers.

Black Currants. We are unable to supply these on account of blister rust which injures pine trees. The Conservation Commission of the state and the Federal Government have prohibited the shipment of these bushes.

GOOSEBERRIES

Plant in the same manner as described for currants, and give the same annual manuring. The American varieties will need close pruning every year.

AMERICAN VARIETIES

Selected 3-year-old stock, 60 cts. each, $6 per doz., $45 per 100

Downing. Pale green, large, prolific and good. Best for home and market use.

Josselyn. Bush vigorous, upright and productive. Fruit varies in size from medium to above medium. Color pale red.

Chautauqua. Golden yellow; large variety and of fine quality.

We offer for August delivery strong pot-plants of Strawberries. Write for our Midsummer catalog, issued in July.

BLACKBERRIES

Blackberries require the same treatment as raspberries and should be planted the same distance apart. We have avoided listed varieties of the prostrate habit, the tips of which constantly root in the ground.

Extra-strong canes, 20 cts. each, $2 per doz., $15 per 100

Blowers. Large; glossy; fine quality. Ripens early and continues long in season.

Eldorado. Large, coal-black, sweet, melting, without hard core. Vigorous, hardy and very productive. Fine market variety.

Iceberg. A snowy white Blackberry. Early, sweet, and tender.

Rathbun. Very large, jet-black; firm; best quality; very productive.

RASPBERRIES

Raspberries succeed well on any good land suitable for corn or wheat, but amply repay high cultivation. Ground bone is the best fertilizer. Red and yellow varieties should be planted in rows 6 feet apart and 3 feet apart in the rows; black- and purple-cap varieties 7 feet apart and 3 feet in the rows. Cut out all old wood as soon as the canes have done bearing—to give more vigor to the young canes. Blackcap varieties should be planted only in the spring.

Extra-strong canes, 20 cts. each, $2 per doz., $15 per 100

RED

Latham. The new mosaic-free, hardy, red Raspberry. The berries are large and round and the color is a richly brilliant red. Very productive.

Marlboro. Light crimson, large, very firm, and of good quality. A fine early market variety; vigorous and productive.

Early June. A new, early, red Raspberry, originated at the New York Experiment Station. Berries large and firm, attractive, bright red color; very productive. A valuable sort for the garden or market.

BLACK AND PURPLE

Columbian. Dull purple, very large, moderately firm. A good market berry and one of the best for canning. Bush remarkably strong and wonderfully productive.

Plum Farmer. A large, blackcap berry of rich, sweet quality. Hardy and very productive. One of the best market varieties and very popular.

YELLOW

Golden Queen. Large, golden yellow, of fine quality. Very hardy and productive; succeeds almost anywhere, and is a most desirable berry, bringing good prices in the market.

TWO FINE EVERBEARING RASPBERRIES

EXTRA-STRONG CANES

We consider the following two Raspberries of superior quality and quite the finest of recent introduction.

White Queen. This wonderful new Raspberry bears an abundance of almost white fruits from August until well into November. The extra-large, firm berries, which are free from seeds and acid, are of exquisite flavor and aroma. Plants attain a height of 6 feet and bear good crop the first year. **30 cts. each, $3 per doz., $20 per 100.**

St. Regis. A remarkable Raspberry and, all things considered, the most valuable variety that has appeared in the last quarter of a century. The berries, though not of large size, are bright red and of excellent quality. It ripens very early, in advance of all the other red varieties, and the canes, in addition to being exceedingly hardy and drought-resistant, are exceedingly prolific. It has rich green foliage that does not scald or rust, hence it succeeds on hot, sandy soil where other varieties fail. Besides yielding an enormous crop in June, it gives also a moderate one in the autumn, and, unlike other red Raspberries, it produces a crop of berries the first year, or the season it is planted. **20 cts. each, $2 per doz., $15 per 100.**

SELECTED FRUIT TREES

We recommend northern-grown fruit trees to our customers, as they will be found to give better satisfaction than southern-grown or western-grown trees. We furnish excellent clean trees, which, if planted carefully, are almost sure to succeed. Trees, when received, should be planted at once in rich, prepared soil, the roots being carefully separated and spread. If dry weather follows planting, the trees must be watered and mulched. Branches of last season's growth should be well cut back, thus encouraging the vigorous growth of new healthy shoots.

Apples

The following is a list of the best Apples we have decided to include after trial. The months indicated are those in which the different varieties usually mature.

SUMMER VARIETIES

Early Harvest. Medium size; pale yellow; mild, fine flavor. August.

Red Astrachan. One of the best of the summer varieties. Apples are of medium size but uniform; flesh white, streaked with red; juicy and tender. August.

Sweet Bough. Splendid for baking; large; pale yellow; tender and sweet. August.

Yellow Transparent. A splendid early variety; fruit good size; mild and delicious; yellowish white when ripe.

AUTUMN VARIETIES

Duchess of Oldenburg. Medium size; yellow, streaked with red; flesh white, juicy and excellent flavor. Crops nearly always large. Aug. and Sept.

Fall Pippin. Very large; yellow; tender, juicy and rich. A favorite fall cooking Apple. October to November.

McIntosh Red. A valuable hardy Canadian sort. Medium size; nearly covered with dark red; flesh white, fine, tender, juicy and refreshing. A good annual bearer of fair, handsome fruit. Resembles the Fameuse, but is larger and more hardy, and fully equal in quality to this standard sort. November to February.

Gravenstein. Vigorous growth; fruit large; greenish yellow, striped with red; good for home use or market. September, October.

Wealthy. A native of Minnesota, where it has proved perfectly hardy, vigorous and productive. Fruit of medium size; red, streaked with white. Oct. and Nov.

WINTER VARIETIES

Baldwin. A fine keeper in a common dry cellar. Very large, round; red-and-yellow skin. Very profitable market sort. December to March.

Cortland Apple. Red, juicy and delightful to the taste. A derivation of the McIntosh, and is one month later.

Delicious. Distinctive in shape and beautiful in color. Large; brilliant dark red, blending to golden yellow at the blossom end; sweet in flavor, slightly touched with acid, but only enough to make it more pleasing. Bears annually. Dec. to April.

King (Tompkins County). Large and handsome; striped red and yellow. Tree vigorous and productive. November to May.

Rhode Island Greening. A splendid cooking variety. Fruit large; green, sometimes with red cheek. October to February.

Roxbury Russet. Medium size; dull green, nearly covered with russet; skin tough; flesh mild and appetizing. January to June.

Winesap. Medium; dark red; subacid, excellent. Tree a moderate grower and abundant bearer. A favorite market variety in the West. December to May.

Any of the above, Standard 3-year-old XX, $1.50 each, $15 per doz.

Quinces

Apple or **Orange.** Large, roundish; bright golden yellow; very productive.

Champion. A vigorous and productive variety. Ripening very late.

Three-year-old XXX, $2.50 each, $25 per doz.

Crab-Apples

Hyslop. Large size; red in color; hardy; sharp acid flavor. September, October.

Transcendent. All things considered, this is one of the most valuable varieties of Crab-apples grown. Tree remarkably vigorous, growing to a good size and very productive. One of the best sellers.

Any of the above, 3-year-old XXX, $1.50 each, $15 per doz.

Pears

SUMMER VARIETIES

Bartlett. Splendid flavor; large; yellow and red; good for eating or canning. September.

Clapp's Favorite. Good bearing variety. Fruit large; yellow and crimson. August.

Wilder. Regular in form, fair size and very handsome; greenish yellow with reddish cheek; flavor sweet and pleasant. August.

AUTUMN VARIETIES

Anjou. Fruit large; yellow; very little core; splendid flavor; keeps well into midwinter. November.

Beurre Bosc. Large; yellow-russeted; half-melting, high-flavored and excellent. A poor grower. September and October.

Duchesse d'Angouleme. Very large; greenish yellow, sometimes a little russeted. Makes a beautiful tree; does best on quince One of the best. October and November.

Seckel. A splendid Pear for the home garden. Of very rich flavor; small; color brownish green with reddish cheek. September, October.

Sheldon. Medium to large; yellow and red. Very excellent and promising variety from Wayne County, N. Y. Tree a fine grower and productive; must be double worked to grow on quince. October.

WINTER VARIETIES

Kieffer. Tree a remarkable grower, with so vigorous a constitution that it rarely, if ever, blights. Fruit of fine size, rich color, and fair quality. Brings high prices in competition with other varieties, and is a great market Pear. Best when picked at maturity and house-ripened. October and November.

Any of the above, 3-year-old XXX, $2.50 each, $25 per doz.

Cherries

BIGARREAU or SWEET

Black Tartarian. Vigorous growth; very large; purplish black; one of the best. Ripening end of June.

Governor Wood. Vigorous growth; medium; clear, light red; tender and delicious. Ripening end of June.

Schmidt's Bigarreau. A most promising Cherry. Fruit of immense size, of a rich, deep black; flesh dark, tender, very juicy, with a fine flavor. Bears abundantly, and makes a most excellent dish for the table.

Windsor. Originated at Windsor, Canada. Fruit large, liver-colored.

Yellow Spanish. Large; pale yellow, with red cheek; firm, juicy and excellent. Last of June.

MORELLO or SOUR CHERRIES

Early Richmond. Medium size; dark red; juicy, rich acid flavor. The stone adheres to the stem. One of the most valuable of sour Cherries.

Montmorency (Large Montmorency). A Cherry of the Richmond class, but larger and more solid. Ripens from seven to ten days later than the Richmond.

Morello, English. Large; dark red, nearly black; tender, juicy, subacid; valuable for preserves; tree small; productive.

Three-year-old XXX, $4 each, $40 per doz

Plums

Coe's Golden Drop. Large and handsome; light yellow, firm, rich, sweet; one of the best of the late Plums. Last of September.

German Prune. A large, long, oval variety, much esteemed for drying; color dark purple; of very agreeable flavor. September.

Imperial Gage (Flushing Gage; Prince's Imperial Gage). Fruit large, oval; skin pale green; flesh juicy, sweet, rich and excellent. Middle of August.

JAPAN PLUMS

Abundance or **Botan.** Lemon-yellow ground, nearly overspread with bright cherry and heavy bloom; large to very large, oblong, tapering to a point; flesh orange-yellow, melting. August.

Burbank. Fruit medium to large, roundish conical; dark red or purplish, running to bright amber; flesh amber-yellow, melting, juicy, with rich sugary flavor; stone small and free. One of the best. August.

Three-year-old XXX, $2.50 each, $25 per doz.

Peaches

Belle of Georgia. Very large; skin white with red cheek; flesh white, firm and of excellent flavor; fruit uniformly large and showy. September 1 to 5.

Crawford's Early. A magnificent large, yellow Peach of good quality. Tree vigorous and very productive. Its fine size, beauty and productiveness make it one of the most popular sorts.

Crawford's Late. Very large; yellow; juicy, good; freestone. End of September.

Carman. A hardy rot-proof Peach, ripening with Early Rivers. Large, round, with pale yellow skin and red blush on sunny side; white flesh, sweet flavor.

Elberta. Large, light-colored yellow Peach; juicy, well-flavored; finest yellow freestone.

Greenboro. The largest and most beautifully colored of all the early Peaches. Of good quality; juicy; a freestone, but adheres slightly.

J. H. Hale. New. Large, late Peach. Fine.

Two-year-old XXX, 75 cts. each, $8 per doz.

SULCO-V.B.

A specific for the control of San José, Red Orange, Cottony Cushion add other scale insects infesting fruit. Plant Lice, Pear Psylla, Leaf Blister Mites, Scurfy Bark Louse. Qt. 80 cts., gal. $2.50, 5 gal. $11.25, 10 gal. $20, ½bbl. (30 gal.) $52.50, bbl. (50 gal.) $82.50.

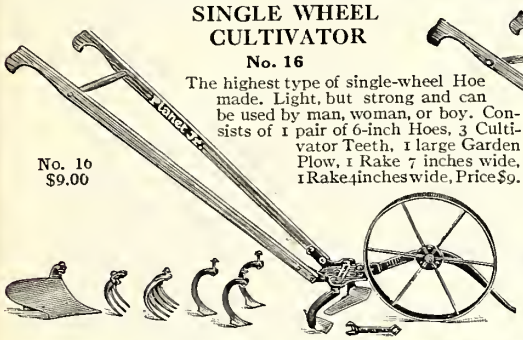
Planet Jr. Wheel Hoes and Seeders

Enable You to Cultivate a Larger Garden with Less Effort

Wheel Garden Tools do the work of three to six men, make your garden yield more abundantly, and save several times their cost in a single season. Every tool is fully guranteed.

SINGLE WHEEL CULTIVATOR
No. 16

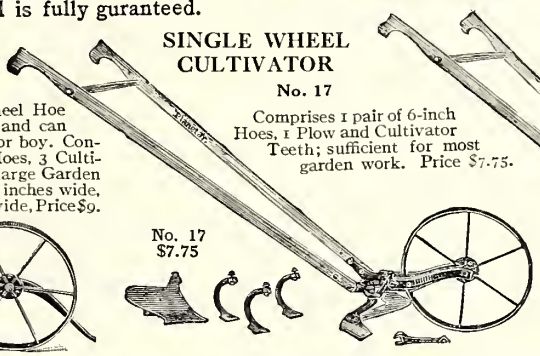
The highest type of single-wheel Hoe made. Light, but strong and can be used by man, woman, or boy. Consists of 1 pair of 6-inch Hoes, 3 Cultivator Teeth, 1 large Garden Plow, 1 Rake 7 inches wide, 1 Rake 4 inches wide, Price $9.



No. 16 $9.00

SINGLE WHEEL CULTIVATOR
No. 17

Comprises 1 pair of 6-inch Hoes, 1 Plow and Cultivator Teeth; sufficient for most garden work. Price $7.75.



No. 17 $7.75

SINGLE WHEEL CULTIVATOR
No. 17½

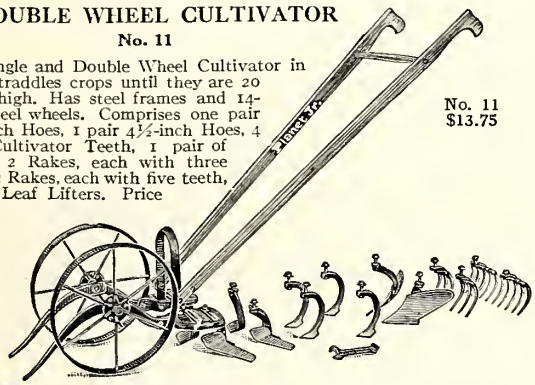
Consists of 1 pair of 6-inch Hoes and 3 Cultivator Teeth. Price $6.75.



No. 17½, $6.75

DOUBLE WHEEL CULTIVATOR
No. 11

A Single and Double Wheel Cultivator in one. Straddles crops until they are 20 inches high. Has steel frames and 14-inch steel wheels. Comprises one pair of 6-inch Hoes, 1 pair 4½-inch Hoes, 4 steel Cultivator Teeth, 1 pair of Plows, 2 Rakes, each with three teeth, 2 Rakes, each with five teeth, and 2 Leaf Lifters. Price $13.75.



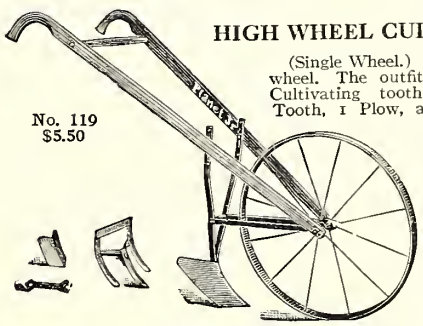
No. 11 $13.75

COMBINED SEEDER AND CULTIVATOR

(Single wheel.) The seed-box holds 2½ quarts of seed, and the combination includes 1 pair of 6-inch Hoes, 4 Cultivator Teeth, 1 pair of Plows for hilling against the rows, 2 Leaf-guards, and 1 Marker. Price $21.50.

HIGH WHEEL CULTIVATOR No. 119

(Single Wheel.) Has a special 24-inch steel wheel. The outfit consists of one 1½-inch Cultivating tooth, 1 4-inch Cultivating Tooth, 1 Plow, and 1 Reversible Scuffle Blade. Price $5.50.



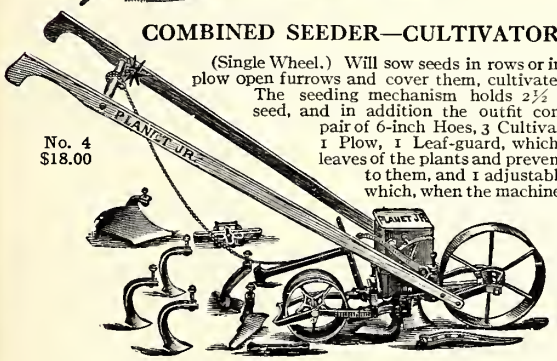
No. 119 $5.50

FIRE FLY GARDEN PLOW

It will throw a furrow 4 to 6 inches wide and 1 to 3 inches deep. The furrow may be deepened by going a second or third time along the row. Price $1.25.

COMBINED SEEDER—CULTIVATOR No. 4

(Single Wheel.) Will sow seeds in rows or in hills; will plow open furrows and cover them, cultivate and hoe. The seeding mechanism holds 2½ quarts of seed, and in addition the outfit consists of 1 pair of 6-inch Hoes, 3 Cultivator Teeth, 1 Plow, 1 Leaf-guard, which lifts the leaves of the plants and prevents damage to them, and 1 adjustable Marker, which, when the machine is sowing seed, indicates the correct location of the next row. Price $18.



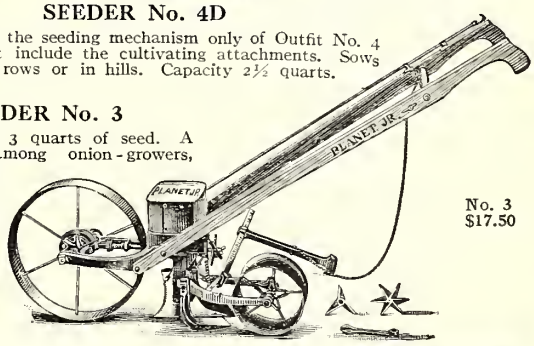
No. 4 $18.00

SEEDER No. 4D

Consists of the seeding mechanism only of Outfit No. 4 but does not include the cultivating attachments. Sows efficiently in rows or in hills. Capacity 2½ quarts. Price $15.

SEEDER No. 3

This holds 3 quarts of seed. A favorite among onion-growers, market-gardeners, and seed-growers. Sows accurately in a narrow line, making wheel-hoe cultivation easy. Price $17.50.



No. 3 $17.50

HOTKAPS. They Keep Plants Warm

Made of strong, weather-proof paper. Hotkaps are quickly placed in position over newly sown seeds, or newly transplanted seedlings, by means of a "Setter," and they are fixed by drawing a little soil around the edge.

Better than coldframes, they insure against damage by late spring frosts; they protect against wind, rain, and hail; they guard against insects. By the use of Hotkaps, crops may be matured sooner and an early market secured.

Protect tomato plants, pepper and eggplants with Hotkaps. Corn may be sown earlier and will yield sooner with their help. Cucumbers, muskmelons, pumpkins, and squashes grow quickly and are shielded from borers. Tomato, pepper and eggplant seeds may be sown directly in the ground, and, protected by Hotkaps, they will yield a full crop. Hotkaps are packed in 1,000 lots. Shipping weight 20 pounds.

PRICES OF HOTKAPS

1,000	$11 50	10,000	$112 50
5,000	56 25	25,000	225 00

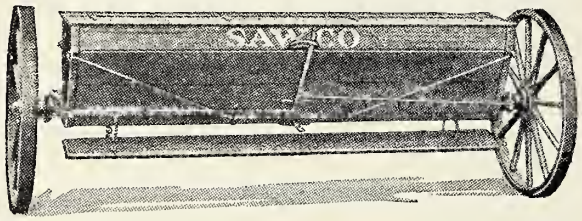
Setter, for placing Hotkaps in position, $2.50.



Hotkaps help the Muskmelon Crop

PRICES SUBJECT TO MARKET CHANGES

S. & W. Co.'s Lime and Fertilizer Sower



This Force Feed Lime and Fertilizer Sower is the most perfect machine on the market for sowing all brands of commercial fertilizers. Nitrate of Soda, Emerald Grass Fertilizer, Fairway Fertilizer, Anti-Clover Manure, Pulverized Limestone, Sheep Manure, Bone-meal, Dry Wood Ashes, etc. Hopper holds 10 bushels. Actual width of sowing is 8 feet. Capacity from 50 to 4,500 pounds. The screen in the hopper and revolving agitator prevents clogging and packing of material on the feeds and insures an even distribution of fertilizers. All feeds can be instantly shut off or opened to any desired amount. Has two 30-inch wheels with 4-inch concave tires. Shipping weight, 360 lbs. $65 each.

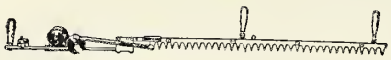
Little Wonder Hedge Trimmer

A well-designed machine which entirely revolutionizes hedge-trimming. It actually cuts a hedge as fast as you walk, and in an hour will trim the top and two sides of a hedge 300 feet long; this is from five to ten times as fast as hand-work.

The cutting blades are of tough steel, holding a sharp edge for a long while and trimming every variety of hedge grown. Use it for trimming, and not for "cutting back" a hedge, and it will last for years. 30-inch one-man Trimmer, $25; 40-inch one and two-man Trimmer, $27.50; 60-inch two-man Trimmer, $35.



Electric Little Wonder Hedge Cutter



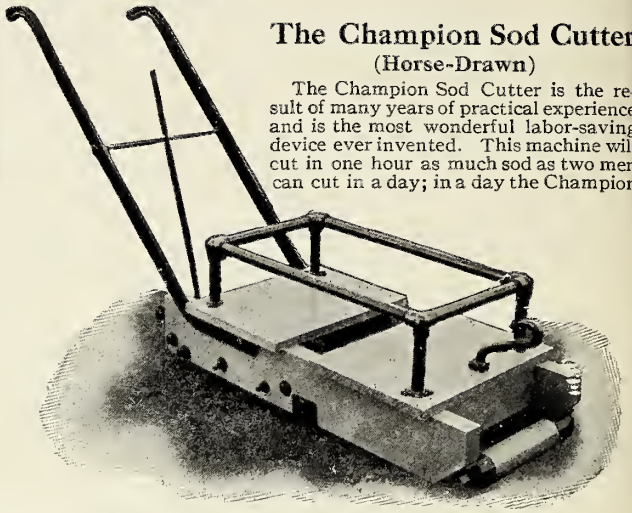
A MARVEL FOR HEDGE TRIMMING

The most rapid, practical, and easy method yet devised. A proven success. It is guaranteed to trim 300 to 500 feet (top and both sides of ordinary hedge) in one hour, and the only effort required is to guide the machine. 40-inch machine, including 100 feet of weather-proof extension cord and General Electric motor, $106.50.

Putting-Green Roller

The S. & W. Co.'s Putting-Green Roller is an indispensable part of the equipment required by golf clubs in maintaining perfect putting-greens. This Roller being of wood is more satisfactory for gathering worm-casts and smoothing down all uneven spots caused by frost, worms, ants, etc. The roller is 4 feet wide, having four 12-inch sections, 10 inches in diameter. The ends of each section are banded with 2-inch steel bands, to prevent splitting. The handle is reinforced with steel braces, bolted to solid cast heads on both ends of the roller. The S. & W. Co.'s Putting-Green Roller is endorsed by many of the best golf clubs of America. The net and shipping weight is 186 lbs., $22.50 each.





The Champion Sod Cutter

(Horse-Drawn)

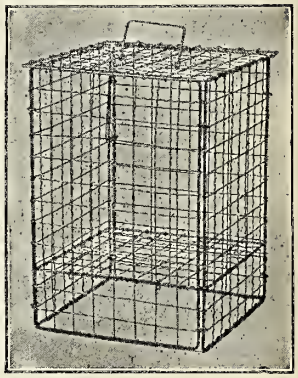
The Champion Sod Cutter is the result of many years of practical experience and is the most wonderful labor-saving device ever invented. This machine will cut in one hour as much sod as two men can cut in a day; in a day the Champion will cut from 25,000 to 35,000 feet of sod. and at this rate you can save the price of a machine in a short while.

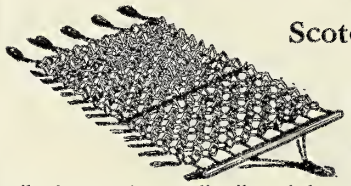
This machine is so constructed that it can be adjusted to cut the sod the one uniform thickness, 1 to 2 inches, 12 inches wide. This is very important, especially when a vast amount of sod is to be laid. One man can lay as much sod as three or four men can by the old method of cutting. $55 each. Extra Knives, $13.50 each.

Burners for Leaves, Paper, and Rubbish

The best receptacle used for burning leaves, papers, and all kinds of rubbish. This handy knock-down Burner is a safeguard against many fires that have their origin in the burning of rubbish in the open. The Burner is extra strong, manufactured of heavy galvanized steel wire, reinforced with iron supports. Made to give life-long satisfaction. We supply this Burner in two sizes.

No.	Square	Height	Each
1	15 in.	22 in.	$3 00
2	17 in.	29 in.	4 00

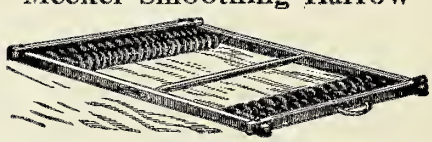




Scotch Chain Harrow

Hundreds of wrought-iron links are woven into what is practically a blanket of chain. This arrangement is ideal in smoothing land as a final preparation for grass seeds; it may also be drawn over the soil after seeds are distributed for the purpose of covering them. Used on driveways and race-tracks, it smooths the surface, eliminating ruts and footprints. The Scotch Chain Harrow is made in three sizes, the Small for one horse, the Medium for two horses, and the Large for tractor. Small size, 5 x 6 ft., $35; Medium, 6 x 7½ ft., $45; Large, 7½ x 7½ ft., $55.

Meeker Smoothing Harrow



The Meeker Harrow is invaluable in the final preparation of land for seeding; it leaves the soil in a condition similar to that obtained by hand-raking. The frame is of wood, holding four sets of discs.

No. 1. Frame 4 ft. 6 in. by 4 ft., with 58 8-in. discs.....$40 00

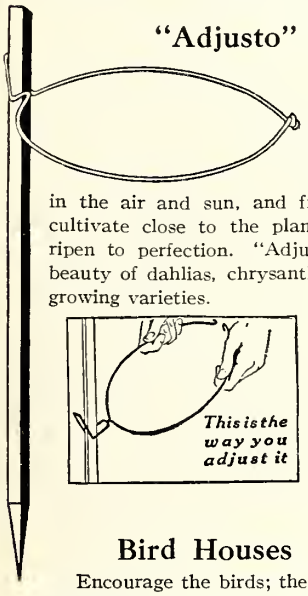
PRICES SUBJECT TO MARKET CHANGES



S. & W. Co.'s Fertilizer Sower for Top-Dressing Lawns

Has a revolving agitator and adjustable feed device; will sow all commercial fertilizers. The hopper is 34 inches long and holds one and one-half bushels. Besides top-dressing lawns, greens, etc., it is a handy machine for all kinds of garden and field work. When two blades are removed, it will sow damp sand. Also is an excellent machine in the winter for covering icy roads and walks with sawdust, sand, etc. Shipping weight, 83 lbs. Price, $28.

"Adjusto" Plant Supports



A sturdy, hardwood stake ⅞-inch square, 3, 4, or 5 feet long, with a strong wire support instantly adjustable to any height. Saves space because it keeps your plants in the air and sun, and from the ground. Enables you to cultivate close to the plant. "Adjusto" supported tomatoes ripen to perfection. "Adjusto" supports bring out the full beauty of dahlias, chrysanthemums, and all the slender, tall-growing varieties.

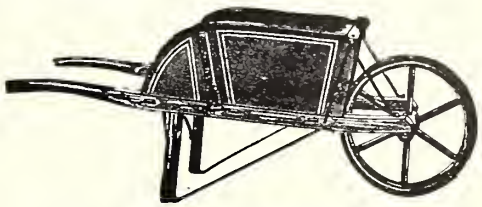
Height	Each	Doz.
1½ ft.	$0 12	$1 20
2 ft.	15	1 50
3 ft.	30	3 00
4 ft.	35	3 60
5 ft.	40	4 20
6 ft.	45	4 80

Bird Houses



Encourage the birds; they are your friends. They have a keen appetite for grasshoppers, grubs, beetles, flies, and other pests. It is said that if all birds were suddenly to perish there would not be a leaf, a blade of grass, or any green thing left upon the earth within a few years —it would be uninhabitable. The presence of birds in the garden should indeed be welcome. You can easily find places for bird houses on your fences and trees and we can offer same as follows:

No.	Type	Families	Width	Height	Depth	Each
1.	Log Cabin	1	10 in.	10 in.	10 in.	$2 50
2.	Log Cabin	2	10 in.	12 in.	14 in.	4 00
3.	Log Cabin	2	14 in.	12 in.	17 in.	4 75
4.	Colonial	2	14 in.	17 in.	16 in.	7 25
5.	Colonial	4	14 in.	18 in.	19 in.	8 75
6.	Hexagonal	2	12 in.	14 in.	12 in.	4 75
	Bird Shelters		12 in.	10 in.	17 in.	3 75
Blue Martin House.						
	Hexagonal (8 ft. pole, $6 extra.)	12	22 in.	24 in.		25 00



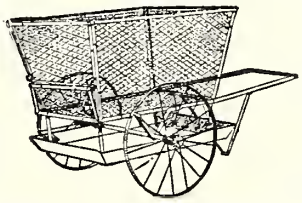
S. & W. Co.'s Garden Barrow

One of the most useful articles on the list of garden and lawn tools. Materials are selected oak, mortised and bolted together, strengthened with six iron braces. Made substantial, light and for long service. Wheels with 3-inch tread.

Size	Front Width	Size of Box		Rear Width	Size of Wheel		
		Depth	Length		Diam.	Tread	Price
Medium	18½ in.	12 in.	26½ in.	23 in.	20 in.	3 in.	$8.50
Regular	20 in.	12 in.	28 in.	24 in.	22 in.	3 in.	9.50
Boys,	15½ in.	9 in.	21 in.	18 in.	16 in.	1½ in.	6.75

S. & W. Co.'s All-Steel Refuse and Leaf Burner

A portable incinerator for the efficient destruction of all waste matter in the garden.



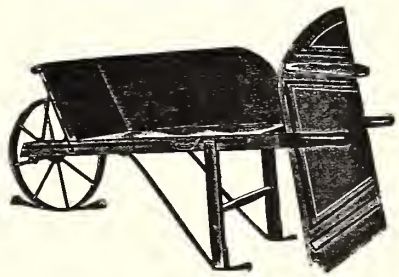
S. & W. Co.'s All-Steel Refuse and Leaf Burner

Made of angle iron and heavy steel netting, which is guaranteed not to burn out. Is fitted with wide wheels, enabling it to be drawn over lawns or soft ground. A steel pan catches any live ashes that may drop through the fire.

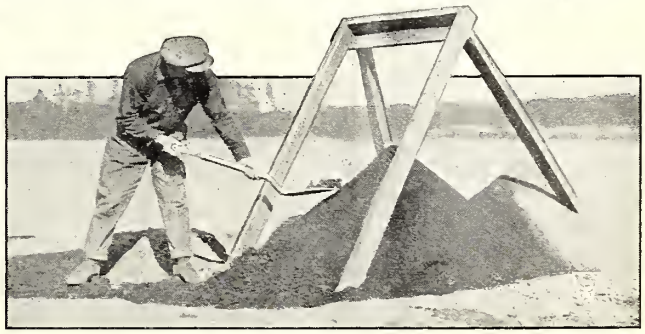
By taking out two pins the whole back of the basket may be removed, thus converting it into a dump cart.

No. 1. Capacity 16 cubic ft... $48 00
No. 2. Capacity 11 cubic ft... 43 00
No. 3. Capacity 5 cubic ft... 38 00

Greenhouse Barrow



This is specially designed to run between the benches of a glass-house and readily to turn corners. Its body is thus constructed narrow, as also is the distance between the handles. Price, $11.



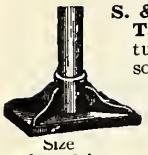
Flat Screen

Handy for compost, soil, sands, gravel, etc. Extra-heavy galvanized wire; spruce frames, painted grey. Size, 28 in. x 68 in. ½-in. mesh. Price, $16.

Garden and Lawn Tools

PRICES SUBJECT TO MARKET CHANGES

Tampers

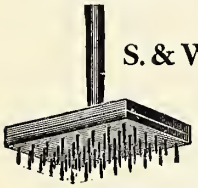


S. & W. Co.'s Iron Sod Tamper. Used when laying turf and for compacting the sod after frost. The Tamper is square and is furnished complete with a 4-foot handle.

Size	Weight	Price
8 by 8-in.	17 lbs.	$2 75
10 by 10-in.	20 lbs.	3 00

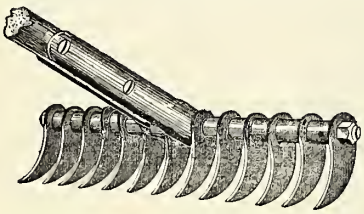


Cement Tamper. Useful in constructing walks and driveways. Round; 8-in. diameter; equipped with a 4-foot handle. Weight 20 lbs. $4.



S. & W. Sod Perforator

The best low-priced device for renovating bare spots in lawns. Use before sowing grass seeds, permitting the seeds to enter the soil. The spikes are set firmly in an oak block, made in two halves and put together with screws. A 4-foot handle is included. 12 by 12 ins. $4.50.



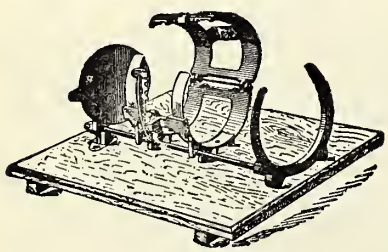
Sawco Lawn Cultivator Rake

This consists of a heavy, solid head, carrying 13 curved, sharp-pointed and sharp-edged teeth. The Cultivator Rake tears out clover or crab-grass and roughens the turf to prepare it for reseeding. With handle, $3.50 ea.



Asparagus Knives

American Asparagus Knives.
Straight Edge. 50 cts. each, $5.50 per doz.
V-Shape. 50 cts. each, $5.50 per doz.

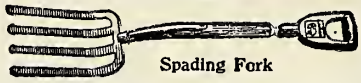


Acme Asparagus Buncher

No. 1 makes bunch 3 to 3½ in. diam. $5 each.

No. 2 makes bunch 4 to 4½ in. diam. Length, adjustable, 7 to 9 in. $5.25 each.

Forks

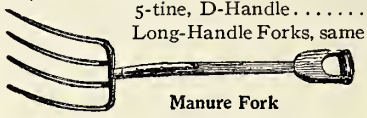


Spading Fork

Spading Forks. Best grade; tines spear-pointed with diamond-shaped backs; handle strapped both sides. Of superior quality and very strong.

	Each
4-tine, D-Handle	$2 25
5-tine, D-Handle	2 75

Long-Handle Forks, same price.



Manure Fork

Manure Forks. Best grade; strong oval tines.

	Each
4-tine, D-Handle	$2 00
5-tine, D-Handle	2 25
6-tine, D-Handle	2 50

Long-Handle Forks, same price.

Hay Forks.
Best grade; strong oval tines, made only with long handles.

	Each
3-tine, Long Handle	$1 65
4-tine, Long Handle	1 75
Boys' Spading Forks	1 25



Norcross Cultivator Hoe and Weeder

Wherever vegetables, plants and flowers are grown, these modern tools are rapidly replacing the ordinary hoe. They are made in three sizes, and can be used in wide or narrow rows. Will also cultivate both sides of a row at one operation, when the middle prongs are removed. The three-prong weeder is the women's size. They destroy weeds; leave the soil level, loose and untrampled. 5-prong, $1.40; 3-prong, $1; Midget, 65 cts.

Hoes



English Scuffle Hoe. Imported. Positively the best. The quality of material used and finish is superior to all others.

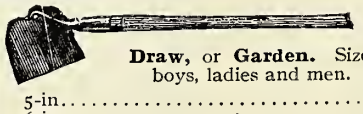
Size	Each	Size	Each
4-in.	$1 00	8-in.	$1 40
5-in.	1 10	9-in.	1 50
6-in.	1 20	10-in.	1 70
7-in.	1 30		

Extra-strong handles, 4½ ft., 50 cts.; 6 ft., 80 cts. each.



Warren, or **Heart-Shaped.** The best Hoe for making drills, covering, hoeing, and weeding.

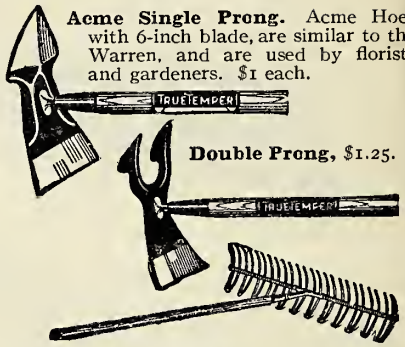
	Each
Small size	$1 25
Medium size	1 50



Draw, or **Garden.** Sizes for boys, ladies and men.

	Each
5-in.	$0 90
6-in.	1 10
7-in.	1 10

HOES, continued

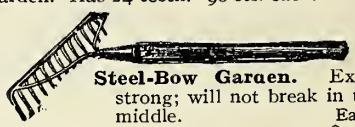


Acme Single Prong. Acme Hoes with 6-inch blade, are similar to the Warren, and are used by florists and gardeners. $1 each.

Double Prong, $1.25.

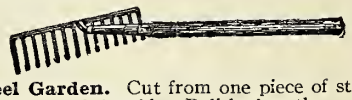
Rakes

Reversible Steel. Suitable for lawn and garden. Has 24 teeth. 90 cts. each.



Steel-Bow Garden. Extra strong; will not break in the middle.

	Each
12-tooth	$1 25
14-tooth	1 35
16-tooth	1 50

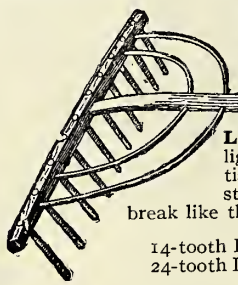


Steel Garden. Cut from one piece of steel; strong and durable. Polished teeth.

Each		Each	
10-tooth	$1 00	14-tooth	$1 20
12-tooth	1 10	16-tooth	1 30

Steel Gravel. Like the Garden Rake. Made substantially, with short teeth.

	Each
14-tooth	$1 25
16-tooth	1 35
18-tooth	1 60



Wood Hay and Lawn. Made light and substantial, with tubular steel bow; does not break like the wood bow.

	Each	Doz.
14-tooth Hay	$1 20	$12 00
24-tooth Lawn	1 50	15 00

Shovels



Ames Shovel

Ames Shovels are the best manufactured; give best service.

	Each
Square Point, D-Handle	$2 75
Round Point, D-Handle	2 75

Long-Handle Shovels, same price.

S. & W. Co.'s Shovels.

Square Point, D-Handle	1 75
Round Point, D-Handle	1 75

Long-Handle Shovels, same price.

Spades



Ames Spade

Ames Spades are the same grade as the Ames Shovels.

	Each
D-Handle and Long Handle	$2 75

S. & W. Co.'s Spades are the same grade as S. & W. Co.'s Shovels.

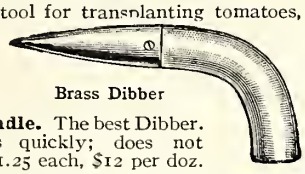
	Each
D-Handle and Long Handle	$1 75
Boys' Spades	1 75

Small Garden Tools

PRICES SUBJECT TO MARKET CHANGES

Dibbles or Dibbers

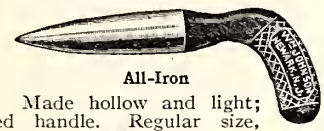
Just the tool for transplanting tomatoes, cabbage, celery, etc.



Brass Dibber

Brass point and wood handle. The best Dibber. Polishes quickly; does not rust. $1.25 each, $12 per doz.

Steel point and wood handle. Regular size, 9¾ in., $1 each, $10 per doz. Small size, 8 in., 90 cts. each, $9 per doz.



All-Iron

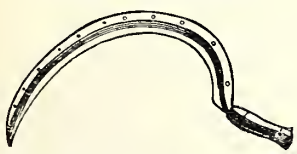
All-Iron. Made hollow and light; japanned handle. Regular size, 9¾ in., 90 cts. each, $9 per doz.



Gem Hand Fork

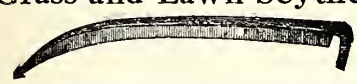
Has three steel prongs and finished handle. Is a handy Fork for transplanting strawberries, loosening the soil, etc. 60c. each.

Grass Hooks



Imported English. With heavy riveted back, thin cutting blade, easy to sharpen; forged from the best-grade steel. Medium, $1; Large, $1.15.

Grass and Lawn Scythes



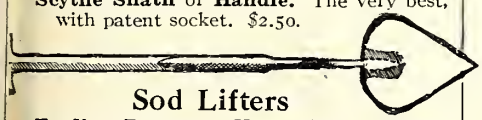
Imported English. Has a riveted back; broad, thin, light blade. Best Scythe for cutting grass, rye, oats, etc.

32-inch. Medium $3 25
34-inch. Large medium 3 50
36-inch. Large 3 75



Domestic. Cutlery steel, natural oil finish, cutting edge, web and backs polished.
32-in. Med...$2 35 | 36-in. Large..$2 60

Scythe Snath or **Handle.** The very best, with patent socket. $2.50.



Sod Lifters

English Pattern. Heart-shaped, strong, and highly efficient. $8.50 each.

American Pattern. Preferred by many on account of its light weight. $2.25 each.

English Digging Forks

Four Tine "D" Handle, $2.50.

Magic Weeder Hoes

Style A. 3-prong Weeder. 25 cts. each.
Style D. 4-prong Weeder and Hoe. 60c., ppd.

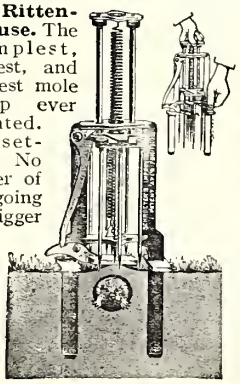
Mole Traps



The Rittenhouse

Schroeder Improved No. 1. It has a rest on top for a weight, also eight sharp prongs and a strong spiral spring. $2.50 ea., $25 per doz.

The Rittenhouse. The simplest, safest, and surest mole trap ever invented. Self-setting. No danger of its going off unless the trigger is touched. Made of all steel and tinned. Six in a crate. The spears are spring steel, therefore not so long as soft steel. $1.10 ea., $11 per doz.



Schroeder Improved



Line Reel

Garden Line Reels

Malleable Iron. Holds 100 feet. $1.25.

Eureka. Galvanized steel. Single, 500 feet size, $3.25. Double, 1,000 feet size, $4.

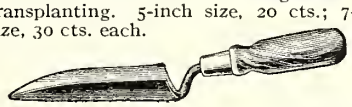
Garden Line

Best Braided Linen. 100 feet, one length, $1.75. 200 feet, one length, $3.50.

Trowels



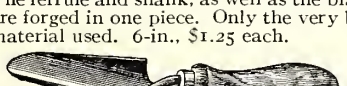
Slim Jim. Excellent for setting bulbs or transplanting. 5-inch size, 20 cts.; 7-in. size, 30 cts. each.



Forged Steel. This trowel is second to the Stumpwall Trowel in quality and finish. The blade and shank are one piece, forged out of the best of steel. Made in three sizes. 5-in., 65c. each; 6-in., 75c., 7-in., 85c.



The Stumpwall is the best made Trowel. The ferrule and shank, as well as the blade, are forged in one piece. Only the very best material used. 6-in., $1.25 each.



Florists' Steel Trowel

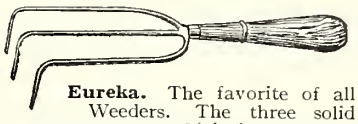
This Trowel is made in one piece of heavy sheet steel. One size only, 6-in., 50 cts. each.

TROWELS, continued

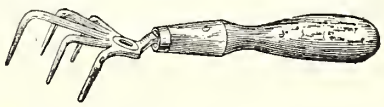


Transplanting. Very handy for transplanting cabbage, tomatoes, etc. Solid steel shank and blade. $1 each, $10 per doz.

Weeders



Eureka. The favorite of all hand Weeders. The three solid steel prongs are set 1½ inches apart to allow cultivating between two or more plants at once. Short handle, 60 cts. each. Larger size, 24-inch handle, 70 cts. each.



Excelsior Finger. This five-short-prong Weeder is excellent for loosening the soil in small flower-beds, etc. 35 cts. each, $3.50 per doz.

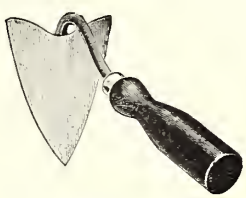


Hazeltine's Hand. Better known as Beet Weeder. A handy tool for weeding between beets, carrots, and all small vegetables and flowers. Made of 1-inch-wide spring steel 85 cts. each, $8.50 per doz.

Dandelion Digger



Used for digging out Dandelions from lawns. Blade, 6 inches. 60 cts. each, $6 per doz.



Midget Warren Hoe. Blade and shank forged from the best quality of steel. Handle is turned, polished, and enameled. Excellent for making drills and covering; also for transplanting and weeding. 80 cts. each, $8 per doz.

Cleveland Lawn Weeder. Is simple to operate; it not only saves the back, but is actually a pleasure to use. The cut is a good illustration, showing how to work it. $1.50 each, $15 per doz.



Cleveland Lawn Weeder

Flower Boxes, Baskets, Pots and Fibreware

PRICES SUBJECT TO MARKET CHANGES



Corrugated Flower Box

Flower Boxes

	Depth	Length	Width	Doz.	100
Cardboard, Flower. Ivy green; lock corners.					
No. 1.	3 in.	18 in.	5 in.	$1 00	$6 00
No. 2.	3 in.	21 in.	5 in.	1 20	7 00
No. 3.	4 in.	24 in.	8 in.	1 75	10 50
No. 4.	5 in.	28 in.	8 in.	2 25	13 00
No. 5.	5 in.	36 in.	8 in.	3 00	16 00
Violet.—	Length	Width	Depth		
No. 5.	11 in.	5½ in.	8 in.	1 30	7 00
No. 10.	9 in.	5 in.	6 in.	1 20	6 00

Corrugated Cardboard. Very heavy and durable; extensively used by florists for shipping cut-flowers.

No.		Doz.	100
A	20 x 7 x 4 in.	$3 00	$20 00
B	28 x 8 x 5 in.	4 50	35 00
C	30 x 12 x 6 in.	5 60	40 00
D	36 x 14 x 8 in.	7 75	55 00
E	48 x 14 x 8 in.	10 00	75 00
F	36 x 12 x 6 in.	7 00	50 00



English Garden Baskets

English Garden Baskets

Durable, light and handy for cut-flowers or vegetables.

No.	Length Width	Each	Doz.
5	16½ x 9 in.	$2 00	$22 00
6	18½ x 10 in.	2 25	25 00
7	21 x 11 in.	2 75	30 00

Galvanized Iron Flower Vases

PAINTED GREEN



Galvanized Iron Flower Vase

	Height	Top diam.	Each	Doz.
No. 1.	9 in.	5 in.	$0 75	$7 50
No. 2.	10 in.	6 in.	90	9 00
No. 33.	12 in.	6½ in.	1 10	11 00
No. 22.	15 in.	6½ in.	1 25	12 50
No. 11.	17 in.	8 in.	1 50	15 00

Growell Pots

Used for the growing of vegetable and flowering plants, shrubs, and ornamentals.

They are made entirely of soil-forming material. It is *impossible* for the plants to become pot-bound, as the porous walls permit the roots to penetrate and grow through them. When saturated with moisture, it enables the plant to drink in its entire requirements. There is no check in the plant's growth when both pot and plant are set in the earth.



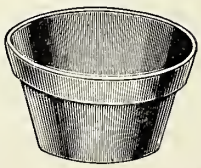
Growell Pot

	Outside top diam.	Height	Doz.	100	1,000
No. 2.	2¾ in.	3 in.	$0 50	$3 00	$20 00
No. 22.	2¾ in.	4 in.	60	3 50	23 00
No. 3.	3½ in.	3¾ in.	60	3 50	23 00
No. 4.	4⅛ in.	4 in.	75	4 25	25 00
No. 5.	5¼ in.	5 in.	1 00	6 00	40 00
No. 6.	6⅜ in.	6¼ in.	1 25	7 75	50 00

Azalea Pots

These pots differ from standard flower pots in that they resemble the bulb pans but are deeper. Excellent for growing bulbs for exhibition.

Diam.	Each	Doz.	100
6 in.	$0 15	$1 45	$10 00
7 in.	30	2 50	17 00
8 in.	40	3 60	25 00
9 in.	60	5 75	39 00
10 in.	80	7 00	50 00



Azalea Pot

Flower Pots, Standard

EARTHENWARE. Best on the market

Diam.	Each	Doz.	100	1,000
2 in.		$0 35	$1 60	$14 00
2½ in.		40	2 00	18 00
3 in.		55	2 75	25 00
4 in.	$0 10	1 00	5 00	38 00
5 in.	15	1 60	8 00	70 00
6 in.	20	2 25	12 00	105 00
7 in.	35	3 25	20 00	175 00
8 in.	40	4 00	30 00	275 00

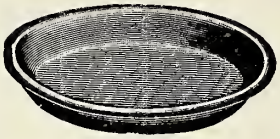
On orders of 50 pots or more we make shipment direct from factory to customer.



Flower Pot

Saucers of same material, to fit Pots, furnished extra

Diam.	Each	Doz.	100
4 in.	$0 05	$0 40	$3 00
5 in.	05	50	3 80
6 in.	10	80	5 80
7 in.	15	1 10	7 80
8 in.	15	1 50	10 60
9 in.	20	2 00	14 50



Flower-Pot Saucer

Flower-Pot Saucers

FIBREWARE. Waterproof

Light and not readily broken; have a surface that will not scratch, like earthenware. Order saucer 2 inches larger than the bottom diameter of pot.

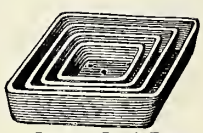
Diam. Outside	Each	Doz.	Diam. Outside	Each	Doz.
5 in.	$0 25	$2 50	7½ in.	$0 45	$4 50
6 in.	35	3 50	9½ in.	65	6 50

Bulb Pans. EARTHENWARE

Diam. at top	Each	Doz.	100
6 in.	$0 20	$2 25	$12 00
7 in.	35	3 25	20 00
8 in.	40	3 25	25 00
9 in.	60	5 50	40 00
10 in.	70	6 50	50 00
12 in.	1 50	13 00	102 00



Bulb Pan



Square Seed Pans

Square Seed Pans

EARTHENWARE

Size	Each	Doz.
6 x 6 in.	$1 10	$10 20
8 x 8 in.	1 40	13 20
10 x 10 in.	1 75	17 00
12 x 12 in.	2 20	20 50

Paper Flower Pots, Neponset

Very economical; waterproof; can be nested closely for shipping.

Diam.	Doz.	100
2¼ in.	$0 12	$0 65
2½ in.	15	70
3 in.	20	85
3½ in.	25	1 20
4 in.	30	1 75
5 in.	50	2 50
6 in.	60	3 00



Paper Pot

Flower-Pot Brackets

Made of steel, artistic in design, finished in black. Saucers are absolutely secured by spring clasp.

	Each
No. 1. Length of arm, 7 in. Clasp will hold 5-in. pot.	$0 65
No. 2. Length of arm, 8 in. Clasp will hold 6-in. pot.	75
No. 3. Length of arm, 10 in. Clasp will hold 7-in. pot.	90

Flower-Pot Handles and Hangers (Krick's Perfect)

	Doz.
No. 1. Will fit from 3½- to 5-in. pots.	$0 60
No. 2. Will fit from 5- to 8-in. pots.	75
No. 3. Will fit from 8- to 12-in. pots.	75

Hanging-Baskets and Boxes, Thermometers and Plant-Tubs

PRICES SUBJECT TO MARKET CHANGES



The S. & W. Co.'s Irrigating Hanging-Basket

FOR BULBS. The S. & W. Co.'s Irrigating Hanging-Baskets and Boxes are, without question, the most satisfactory device for growing bulbs ever devised. A beautiful and certain growth, with a minimum of care.

FOR FERNS. Nearly every home-lover is a lover of ferns, but few succeed with them. They never fail in S. & W. Co.'s Irrigating Flower-Boxes, or Hanging-Baskets.

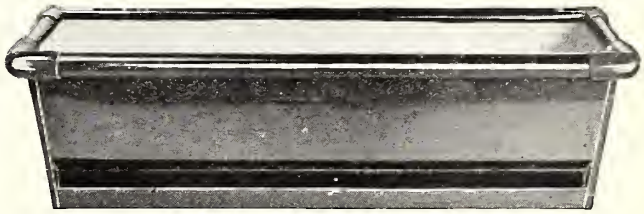
The S. & W. Co.'s Irrigating Hanging-Baskets

The S. & W. Co.'s Irrigating Basket is a strongly made, water-tight, galvanized square steel box, attractively finished with a baked-on enamel in dark green. Its neat design harmonizes with any surrounding. The top edges have a pleasing roll finish and the boxes are made entirely suitable for all locations. Four chains are furnished with which the basket may be suspended anywhere—indoors or out.

There is a water-pocket at the bottom, and, leading from it into the box, are tubes to convey water to the soil. Watering is made easy, the air circulation is perfect, and the soil is kept sweet and healthy. What is more important, the plants get the water at the roots, right where it does the most good.

10 inches square	$2 35	16 inches square	$4 00
12 inches square	2 75	18 inches square	4 75
14 inches square	3 25		

The S. & W. Co.'s Irrigating Flower-Boxes



You can put the S. & W. Co.'s Flower-Boxes anywhere—on the piazza rail, at the edge of the piazza floor, the window-sill, and in many other places on the outside or inside of your home. They are easy to put up and take down—a screw driver is the only tool you need. Brackets may be had for fastening the boxes in different positions. You can be absolutely certain that they will not drip. When cold weather comes, take the boxes and plants inside and have the all-winter cheer of growing flowers.

Length	Width	Depth	Each	Length	Width	Depth	Each
24 in.	8½ in.	6¼ in.	$1 95	42 in.	8½ in.	6¼ in.	$4 00
30 in.	8½ in.	6¼ in.	2 40	48 in.	8½ in.	6¼ in.	4 50
36 in.	8½ in.	6¼ in.	3 25				

Brackets for Attaching the Above to Window Frame, Etc.

No. 1. Sits on window-sill. 90c. per pair.
No. 2. Sits below window-sill. $1.10 per pr.
No. 3. For porch-rails and wooden sills. 65 cts. per pair.

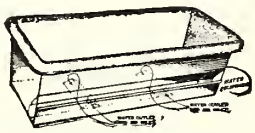
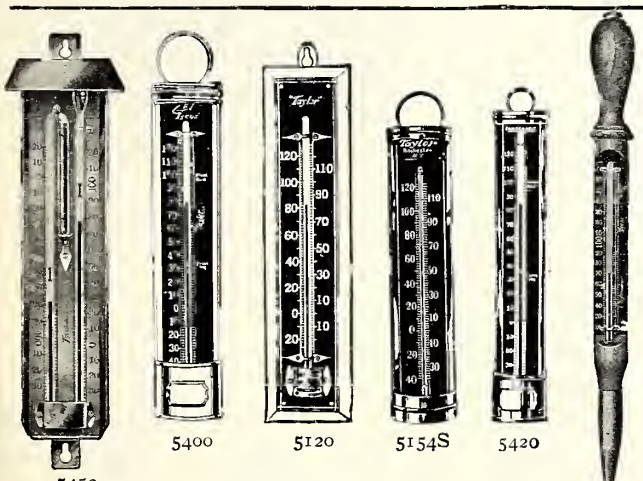


Diagram shows the interior construction of the S. & W. Co.'s Irrigating Flower-Box

The love of flowers is inherent in all of us. Radiant with beauty and fragrance, the bright blooms add charm to any home. Have you ever thought how much brighter and cheerier your windows and veranda would be with some pretty growing flowers along the rail? There is a rare enjoyment that comes from watching the progress of the tiny shoots as they grow and blossom into full grown flowers.

The S. & W. Co.'s Flower-Boxes and Hanging-Baskets make it easy to have all the flowers you want. You can plant them yourself or have the florist fill the boxes with your favorite varieties already in bloom. All plants thrive in these unique receptacles.



5452 5400 5120 5154S 5420 5981

Thermometers

No. 5452, Self-Registering. (Siexe's Pattern.) Lacquered polished brass case, white figures. **Maximum and Minimum.** 10-inch, $7. Magnet with each.

No. 5400. Black japanned heavy tin case; brass scale, white figures. (Mercury.) Scale range, 10 to 40 degrees below zero to 120 above. **Standard Grade.** 8-inch, $1.75; 10-inch, $2.

No. 5420. Black japanned heavy tin case. For greenhouses. Black oxidized brass scale, white figures. (Spirit.) 8-in. $1; 10-in. $1.25.

No. 5154S. Coppered tin case; distance reading. Black oxidized brass scale, white figures. (Spirit.) Scale range, 120 degrees above to 40 degrees below zero. 8-inch, 85 cts.

No. 5120. Distant reading. Wood-back Mission finish, brass scale, white figures and graduation. (Spirit.) Easy to read at distance. 8-inch, $1.25.

No. 5981. Hotbed. Wood frame, 15 inches, with point. Brass oxidized scale, white figures and graduations. Best grade, mercury filled bulb-chamber giving good contact. Price, $3.

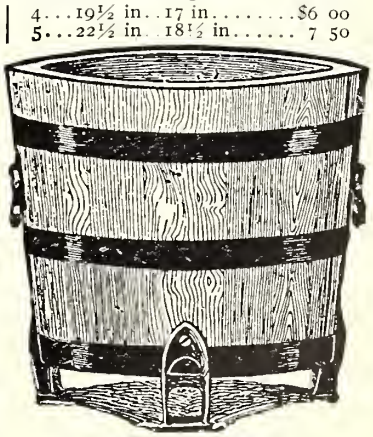
TUBS

Plant Tubs, New York Cedar. Made of the choicest seasoned cedar, highly finished with black hoops; will last twice as long as cypress.

No.	Diam.	Height	Price	No.	Diam.	Height	Price
1	12 in.	10½ in.	$2 50	4	19½ in.	17 in.	$6 00
2	13 in.	13 in.	3 50	5	22½ in.	18½ in.	7 50
3	14½ in.	15 in.	4 25				
3½	16½ in.	15¼ in.	5 50				

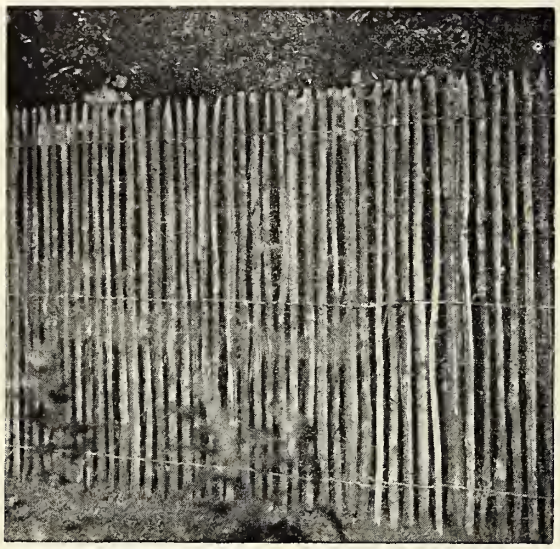
Barclay Tree Tubs. Made of seasoned, selected Virginia White Cedar; bound with electric welded wire hoops (galvanized), three hoops to each, except the two smallest tubs which have two.

No.	Inside Top diam. inches	Inside Depth inches	Price Each
1	6	6	$0 70
2	7	7	75
3	8	8	80
4	9	9	90
5	10	10	1 20
6	11	10	1 40
7	12	11	1 60
8	13	12	2 00
9	14	13	2 50
10	15	14	3 00



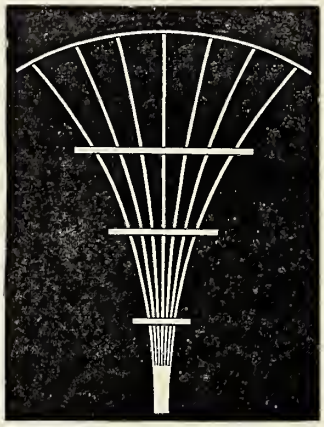
New York Cedar Tub

GARDEN FURNITURE



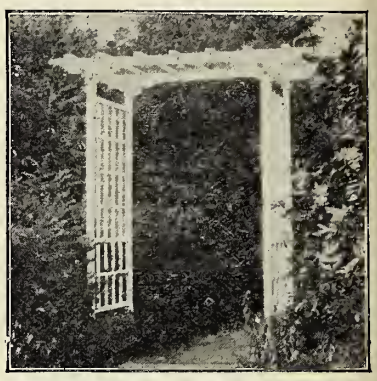
CLEFT CHESTNUT FENCING. It makes a splendid background for plants and vines. Space between pickets ¾ inch. Furnished in rolls 16 feet long. Comes in three heights: 3 feet, 10 inches; 4 feet, 11 inches; and 6 feet, 6 inches. 3 ft. 10 in. high, 50 cts. per lineal ft.; 4 ft. 11 in. high, 65 cts. per lineal ft.; 6 ft. 6 in. high, 90 cts. per lineal ft.

DUBOIS WOVEN WOOD FENCE. Made by hand in France of straight, live, young chestnut saplings, closely woven together. Insures privacy; adds unusual beauty. For country estate or suburban home. It is easily erected and will last a lifetime. Comes in sections 5 feet long, in two heights, 4 ft. 11 in. and 6 ft. 6 in., with gates to match. 6 ft. 6 in. high, $1.75 per lineal ft.; 4 ft. 11 in. high, $1.45 per lineal ft. (Gates extra.)



LAWN FAN, Seven Leaf. In two sizes. Wood is painted white. 70 in. high, 45-in. spread, $2; 94 in. high, 60-in. spread, $2.50.

ROSE BUSH FAN, Five Leaf. Height 58 in., spread 30 in. Wood is painted white. $1.75.



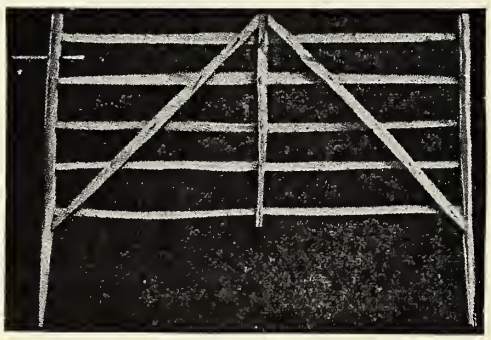
THE SAWCO GARDEN ENTRANCE. These arches are strong enough to withstand rocking and will last for many years, being thoroughly mortised and tenoned and hand finished. Cypress, "the wood eternal," is used for all parts in contact with the earth. 6¾ ft. high, 4½ ft. wide. Price, $36.



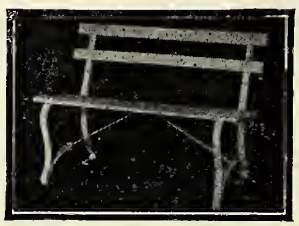
GAZING GLOBE WITH PEDESTAL. The Globe is 12 ins. in diameter, and the Pedestal is 24 ins. high. These are sold separately. Globe, $20.; Pedestal, $7.50.



POPULAR GARDEN ENTRANCE. Use it to separate the garden from the rest of the property. On it you may grow climbing roses and honeysuckle with delightful effect. The legs enter the ground three feet and require no foundation. 7 ft. high, 4½ ft. wide. Price, $48.



ENGLISH TYPE HURDLE FENCE. Strong enough for any ordinary purpose, yet readily portable. Posts are 6 ft. high and extend 18 inches into the ground: when set, the fence is 4 ft. high. Four-bar hurdle $2.50 each, 5-bar $2.70 each, 6-bar $2.90 each.



PARK SETTEES. For use in the garden, on the lawn, tennis court, bowling green, golf tee, or on the porch. Strong, simple, yet graceful in design. Slats are of best hardwood, legs of channel steel: the whole painted green. 4 ft. long $5, 5 ft. long $5.50, 6 ft. long $6.



BIRD-BATH with Pedestal. The bowl is 22 inches in diameter and the pedestal is 24 inches high. Bowl $7.50. Pedestal $7.50



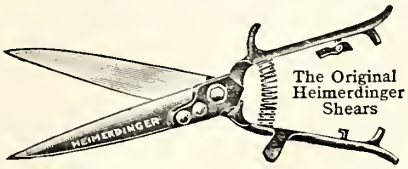
SUN-DIALS

Brass dial as illustrated, 7¾-inch diameter, $7.50.

Pedestal, suitable for above, made of hard burnt clay and very decorative. $7.50.

RUSTIC HANGING-BASKETS. Bowl is hexagonal-shaped, covered with laurel; exquisitely finished. Are very attractive when filled with ferns and running plants. Will last many years with minimum care. 9 inches in diam., $2.25; 12 inches in diam., $2.75; 15 inches in diam., $3.

The Scissors-Like Grass Shears



The Original Heimerdinger Shears

The original Heimerdinger Grass Shears, that revolutionized the Grass Shear industry, has given the public just what they have been waiting for for many years.

This improved model has the finest quality Shear steel blades, hardened and tempered, and finely polished. The handles, so designed as to fit the hand, are made of refined malleable iron, and finished in a beautiful high-lustre baked black enamel.

A spring-tension washer is provided to hold the Shears in permanent adjustment, and a patented spring latch that opens the Shears by mere pressure of the hand, holds it shut while not in use.

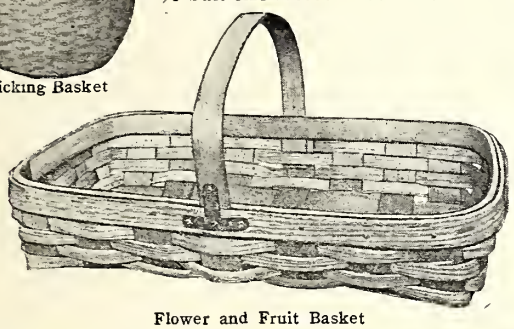
Very practical for trimming the edges and borders of lawns, flower-beds, etc. Total length of Shears 12½ inches, blades 6 inches. Price, $1.35 postpaid.

Picking Basket


Picking Basket

A handy basket for picking fruit and gathering eggs, etc. Best oak splint, stiff bail, light and well made. Indispensable on the farm.

¼-bus. size.....$1 00
½-bus. size..... 1 50


Flower and Fruit Basket

Flower and Fruit Basket

This basket is made light and especially for gathering cut-flowers, berries, grapes, asparagus, and small vegetables. A handy basket for carrying berry boxes while being filled. Handle has two galvanized braces. Light, strong and handy. Made in 3 sizes.

	Length	Width	Depth	
Small size	18 in.	10 in.	3½ in.	$1 00
Medium size.	20 in.	12 in.	3½ in.	1 10
Large size	22 in.	14 in.	3½ in.	1 25


Bamboo Basket

Bamboo Basket

Better known as Long Island Potato Basket. Woven split rattan; handle opening under rim. Well made. A very good basket for potatoes.

½-bus. size.....$2 00
Bus. size..... 2 50

General-Purpose Baskets

Used for many purposes on the farm. Handy for carrying corn, coal, wood, vegetables, leaves and rubbish, etc. Best oak splint. Made strong and for long service.

1-bus. size.....$2 00
1½-bus. size..... 2 50
2-bus. size..... 3 00
3-bus. size..... 4 25
4-bus. size..... 5 00

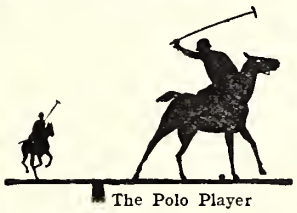

General-Purpose Basket

Weather-Vanes

WATCH THE WIND AND FORECAST WEATHER CHANGES


The Gardener


The Golfer

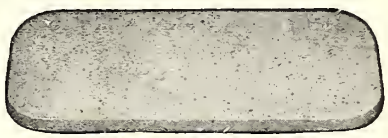

The Polo Player


The Fisherman

These Weather-Vanes are cut from heavy sheet bronze and are indestructible. The silhouettes are 18 inches long and swing with the wind; they are pivoted to a fixed base on which the points of the compass are indicated. These Weather-Vanes may be attached easily to the garage roof, greenhouse, or residence; one would look good on your radio pole.

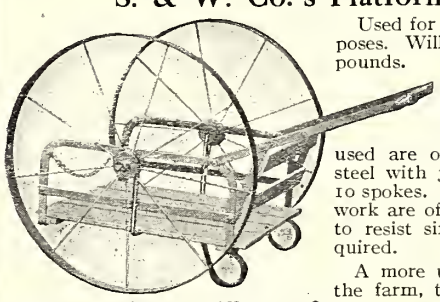
We offer in four styles, **"The Gardener," "The Golfer," "The Polo Player,"** and **"The Fisherman." Each $32.50.**

Sponge Rubber Kneeling Mat



Made of high-grade sponge rubber. Protects the knees from becoming sore while kneeling on damp ground. Absolutely sanitary; can be washed without injuring the mat. Makes kneeling a pleasure. Price, $1.50 each.

S. & W. Co.'s Platform Cart



Used for general carrying purposes. Will carry a load of 800 pounds.

This Cart is well built of the best material and nicely finished. The wheels used are of the highest grade steel with 3-inch oval tires and 10 spokes. The axles and framework are of steel, strong enough to resist six times the load required.

A more useful implement for the farm, the estate, or the golf course would be very difficult to find.

Platform 28 x 32 in.; 36-in. wheels; weight 121 lbs. Price, $15.



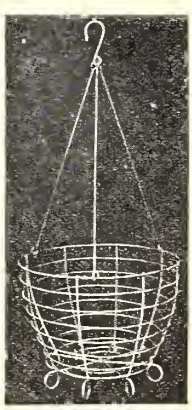
S. & W. Co.'s Reenforced Nursery Spade

A well-made Spade, being strongly and heavily strapped close up to the D-handle. For all-round garden work, and will last a lifetime. Price, $2.

Galvanized Heavy Wire Hanging-Baskets

For decorating the porch, piazza, or sun-parlor.

	Each.
8-inch	$0 85
10-inch	90
12-inch	1 00


Galvanized Wire Hanging-Basket

Miscellaneous Garden Supplies

PRICES SUBJECT TO MARKET CHANGES

Aprons, Gardeners'. English made.
Fine shalloon, 39-in., with bib and pocket, $4.50 each; 42-in., with bib and pocket, $5.50 each.
Heavy serge, 39-in., with bib and pocket, $4 each; 42-in., with bib and pocket, $4.25 each.

Broom, Bamboo. Excellent for sweeping lawns, putting-greens, and walks. Made of bamboo. $1.50 each, $15 per doz.

Birch Brooms. Superior make. 75 cts. each, $7.50 per doz.; with handle $1.25 each, $12.50 per doz.

Carnation Supports. Model Extension, 2-ring, $1.10 per doz., $7.50 per 100; 3-ring, $1.35 per doz., $8.50 per 100.

Carnation Bands, Rubber. Prevents splitting. 25 cts. per oz.

Clips, Eureka. For fastening rose and chrysanthemum wire stakes. $1.50 per box of 500, $2.50 per box of 1,000.

Gloves. Made substantially of horse-hide; heat- and water-proof; made with gauntlets. Good Gloves for pruning and farm-work.
No. 259. All leather. $2.50 per pair.
No. 5990. Ladies'. $2 per pair.

Glazing Materials

Putty Bulb, Scollay. A useful tool similar to the well-known Scollay Sprinkler, with a tube instead of spray for applying liquid putty in glazing greenhouses. $1.50.

Glazing Points, Van Reyper's. No rights or lefts. No. 2, large, for single- and double-thick glass for greenhouses and skylights. Box of 1,000, 75 cts.; 5,000 for $3.25.
Pincers or pliers for same, 50 cts.

Red Devil Glass Cutter. 25 cts., and 50 cts.

Putty Knife. No. 100. A very good tool. 50 cts. each.

Grafting Wax, "Seal Bark." Lb. 60 cts.

Grafting Chisel. $1.75.



Planet Jr. Disc Edger

FOR LAWNS

A very dependable implement; easy to handle. $2 each.

Knives, Turf-Edging, Budding and Pruning

Solid Welded - Steel Edging. Socket handle; made of the very best steel; imported English. 8-inch, $2.50; 9-inch, $3. Each

Half-Moon. Solid steel, with a polished handle.....$1 40

Pruning Knives—

No.		Each
1.	Cocoa handle. 1 blade	$1 50
2.	Stag. 1 blade	2 00
3.	Stag. 2 blades	2 75
4.	Cocoa. 1 blade	2 00
5.	Cocoa. 2 blades	3 25

Budding Knives—

No.		
A.	Ivory handle. 2 blades	3 50
B.	Bone, S. & W. 1 blade.	2 00
C.	Bone, S.&W. 2 blades.	2 50
D.	Ivory. 1 blade	2 75
E.	Bone. 2 blades	1 50
F.	Ebony. 1 blade	1 50

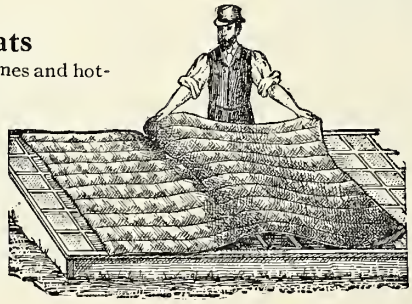
KUNDE KNIVES—
Budding and Pruning Knife. Two blades, brass lined; polished wooden handle..... 3 00
Budding Knife. One blade, brass lined, polished wooden handle..... 2 00

Hotbed Mats

For protecting coldframes and hotbeds. Warmly lined with waste wool and cotton, which are quilted in to hold position.

No. 1. 40 x 76 in. Burlap on both sides. $2.75 each, $30 per doz.

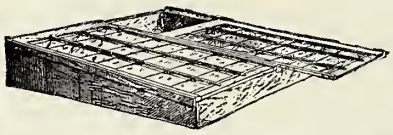
No. 2. 76 x 76 in. Burlap on both sides. $3.75 each, $42 per doz.



Hotbed Sash and Frames

PACKING charged extra on crates containing 2 or 4 glazed sash, $1.50 per crate. Crates containing 6 glazed sash, no charge.

Stumpp & Walter Co.'s Standard Frames are made of selected Gulf Cypress, free from knots and sap. Frames are dressed and finished with two coats of gray paint. The four corners are securely held with angle irons and bolts. Easily taken apart when necessary to store or ship them. The rails between the sash are rabbeted and grooved for drip, and dovetailed into the sides. The back depth of frame is 16 inches, front depth 8 inches. This provides the necessary pitch to carry away rain and snow. Frames are made for 2, 3, 4 and 5 sash.



No. 2 Frame. With two 3 x 6 ft. sash $32, without sash $16.
No. 3 Frame. With three 3 x 6 ft. sash $45, without sash $21.
No. 4 Frame. With four 3 x 6 ft. sash $58, without sash $26.
No. 5 Frame. With five 3 x 6 ft. sash $72.50, without sash $32.50.

Single Light Sash. Stumpp & Walter Co.'s Single Light are standard size, 3 x 6 feet. Made of selected cypress, 1⅛ inch thick, free from knots and sap. Mortised and leaded joints. Three rows of 10 x 12-inch double-thick glass, iron cross-bar across the center. Made extra strong and durable. Finished with two coats best white lead. $8 each, $90 per doz.

Double Light Sash. Stumpp & Walter Co.'s Double Light or Double-Glazed Sash are made with two layers of glass, providing an air-chamber or insulator, which keeps the warmth in and the frost out. With the Double Light Sash it is not necessary to use mats or covering in severe cold weather. In locations where snow is frequent or stays long it does not interfere with the Double Light Sash, providing the snow is cleaned off. The plants receive the benefit of the sunlight and grow uninterruptedly. The sash are standard size, 3 x 6 feet, 1⅞ inches thick. Made of clean Gulf Cypress, free from knots and sap. Mortised and leaded joints. Three rows of 10 x 12-inch double-thick glass. Strengthened with a ¾-inch iron bar across the center and finished with two coats of best white lead. $14.50 each, $165 per doz.

Simplex Waterproof Plant Labels

The writing is protected by the transparent cover and will last indefinitely if done with lead pencil.

	Doz.	100
No. 1. 3 x ½ in.	$0 45	$3 00
No. 2. 4 x ¾ in.	75	5 00
No. 3. 5 x 1 in.	1 10	7 00



Galvanized Marker

S. & W. Co.'s Permanent Label Holder

This Label Holder is finished with an index card covered with mica, making it absolutely rust-proof, finished in iron, galvanized and japanned green. Stake 24 inches high. No. 10 card, 2¾ x 1½ inches, 25 cts. each; No. 11 card, 3 x 2 inches, 30 cts. each.

Galvanized Metal Marker for flower-, vegetable-beds and trees.

	Each	Doz.	100
9-inch	$0 10	$1 00	$7 00
10-inch	15	1 50	12 00

Indelible Ink for use on these markers, bottle 50 cts.

Pot or Garden Labels

Wooden, Painted—	100	1,000		100	1,000
4-inch	$0 35	$2 25	8-inch	$1 25	$9 00
4½-inch	40	2 50	10-inch	1 40	11 00
5-inch	45	3 00	12-inch	1 60	13 25
6-inch	50	4 00			

Copper-wired—
3½-inch..... 50 3 00

Zinc Garden. These are unsurpassed, being neat and durable. For use with our Indelible Ink which makes a jet-black mark.

No.		Doz.	100	No.		Doz.	100
1.	4¾ x 3½ in.	$0 50	$3 50	6.	2¼ x 2 in.	$0 30	$2 00
2.	4 x 2¾ in.	35	2 25	7.	2¾ x ⅞ in.	20	1 25
3.	4 x 3 in.	30	2 00	13.	2¾ x 1¼ in.	20	1 25
4.	5 x 1 in.	30	2 00	14.	1½ x 1¼ in.	20	1 25
5.	3½ x 2½ in.	30	2 00	15.	4¼ x 4¾ in.	25	1 50

Miscellaneous Garden Supplies

PRICES SUBJECT TO MARKET CHANGES

Indelible Ink. For zinc labels. 50 cts. per bottle.

Label Pencils. Permanent writing on wooden labels. 15 cts. each, $1.50 per doz. X-L-All Pencil, 25 cts. each, $2.50 per doz.

Netting. Bird-netting to protect all small fruits and vegetables. 1-inch mesh only, in 20 and 30-ft. widths. $2 per 100 square feet.

Paper—
Wax. 18 x 24 in. Ream.....$3 00
24 x 36 in. Ream..... 4 00
Tissue. 24 x 36 in. Ream..... 2 50
Manila. 24 x 36 in. Ream..... 4 00
Wrapping. 40 x 48 in. Lb..... 14
Wrapping. In rolls: Widths 24 in., 30 in., 36 in., 48 in. Weight approximately 50 lbs. Kraft or Manila, lb. 14 cts.

Plant Sprinkler, Scollay. Made of the best rubber. Straight neck, $1.50.

Post-Hole Diggers, Samson. 56 inches, $6.

Post-Hole Auger. 6-in., $2.50; 8-in., $2.75.

Raffia, Natural. For tying plants. Lb. 50 cts., 5 lbs. $2.
Colored. All standard shades, ½lb. 50 cts., lb. 90 cts.

Scythe Stones, Genuine English. Round, tapering. 60 cts. each.
Unbreakable Radiac. 30 cts. each, $3 per doz.

Scythe Rifles, Emery-coated. 25 cts. each, $2.50 per doz.

Scissors, Grape-thinning, $2; **Flower-gathering,** $3.

Well Digger. 6-in., $4; 8-in., $4.50; 10-in., $4.75.

English Vine or **Wall Nails.** Ideal for fastening vines to walls, houses, etc. 1½-in., $4 per 100; 2-in., $5 per 100.

Plant Stakes and Supports

Adjusto Plant Supports. See page 157.

Bean Poles. Excellent for staking Pole Lima Beans. 30 cts. each, $3.50 per doz., $25 per 100.

Plant, Tapering, Green—

	Doz.	100		Doz.	100
1½ feet	$0 35	$2 25	3½ feet	$1 50	$9 20
2 feet	60	4 00	4 feet	1 60	11 00
2½ feet	80	5 20	5 feet	2 10	14 50
3 feet	1 10	7 25			

Carnation Supports. Model Extension, 2-ring, $1.10 per doz., $7.50 per 100; 3-ring, $1.35 per doz., $8.50 per 100.

Chinese Tonkin Cane. These are Chinese canes, very strong and heavy. 2, 3 and 4-ft., ¼ to ½-in. diam., 5, 6 and 7-ft., ¾-in. diameter.

	Doz.	100	1,000		Doz.	100	1,000
2 feet	$0 25	$1 50	$10 00	5 feet	$0 75	$5 50	$45 00
3 feet	35	2 00	17 00	6 feet	1 00	6 50	55 00
4 feet	50	3 75	33 00	7 feet	1 20	7 50	65 00

Japanese Bamboo Canes. Dyed green.

	Doz.	100	1,000		Doz.	100	1,000
1½ feet	$0 15	$0 45	$3 60	3½ feet	$0 35	$1 40	$11 00
2 feet	20	85	6 80	4 feet	40	1 50	12 00
2½ feet	25	1 00	8 00	5 feet	45	1 80	14 50
3 feet	30	1 20	10 00				

Japanese Cane. For staking plants and trees.

	Doz.	100	1,000		Doz.	100
6 feet	$0 35	$2 00	$17 50	10 feet	$1 20	$7 00
8 feet	80	4 50	40 00	20 feet	5 00	35 00

Dahlia Poles, Tapering—

	Doz.	100		Doz.	100
3 feet	$1 80	$11 50	4 feet	$2 25	$15 50
3½ feet	2 00	13 50	5 feet	2 75	19 50
			6 feet	3 50	24 50

Special Dahlia Poles. Solid ash; ¾ inch thick; non-tapering; painted green.

	Doz.	100		Doz.	100
5 feet	$2 00	$14 00	6 feet	$2 75	$18 00

Galvanized Wire—

	100	1,000		100	1,000
3 feet	$2 50	$22 00	4½ feet	$3 50	$33 00
3½ feet	2 75	26 00	5 feet	4 00	37 00
4 feet	3 30	30 00	6 feet	5 00	45 00

Tomato Supports, Wire. 32 inches high, 14 inches in diameter, made of heavy steel wire. 45 cts. each, $4.50 per doz., $32 per 100.

Twines

S. & W. Co.'s Smilax Thread. This Thread is very strong, green in color and warranted not to fade. Best Thread on the market. 35 cts. per spool, $2.25 per 8 spools, $6 per box of 24 spools.

TWINES, continued

Silkaline. Very largely used for tying. Three sizes, F, fine; FF, medium; and FFF, coarse. 40c. per spool, $3 per box of 8 spools.

Bouquet Twine. White. 3-oz. balls 20 cts. each, $1 per lb., $4.50 for 5 lbs.

Sea Island Cotton. Green. Ball, 20 cts.; box of 8 balls, $1.50.

Twine, Soft. For tying vines, etc.; very strong, 2 and 3-ply. Ball 25 cts., 3 balls 60 cts., 12 balls $2.25.

Tarred Yarn. Excellent, low-priced material for raspberries, shrubs, etc. Ball (1 lb.) 50 cts., 5 balls $2.25.

Wire, Bouquet, Florists' Annealed. Nos. 22 and 24. In coils of 12 lbs., $4 per coil.

Florists' Bright. Cut in lengths. In boxes of 12 lbs. (one stone). 12 in. and 18 in. long. No. 22, $2.75; No. 24, $3.25.

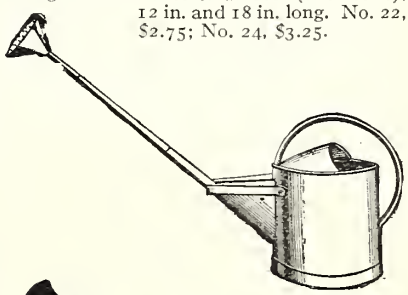
Watering Pots

Heavy galvanized iron, reinforced; made well and substantially. Each pot has a long spout, with one fine and one coarse rose.

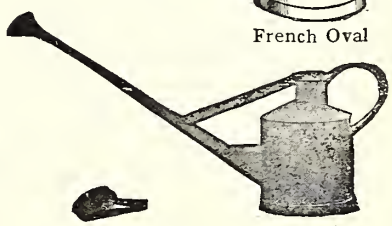
Round Pattern.
6-quart.....$5 50
8-quart..... 6 00
10-quart..... 6 25
12-quart..... 6 75

French Oval Pattern.
6-quart.....$6 25
8-quart..... 6 50
10-quart..... 7 00
12-quart..... 7 75

Haw's Pattern.
2-quart $5 00
3-quart..... 6 00
4-quart..... 6 50
6-quart..... 7 00
8-quart..... 8 00



French Oval

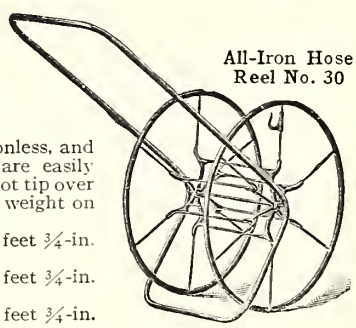


Haw's

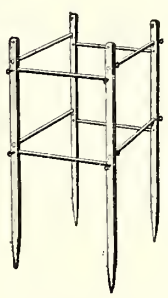
All-Iron Hose Reel

The All-Iron Hose Reels are constructed entirely of iron, and are indestructible. They are light in weight, frictionless, and the wheels being high, they are easily manipulated. These Reels cannot tip over when unreeling and there is no weight on the handle.

No. 10, 21-in. wheel, holds 100 feet ¾-in. hose, $5 each.
No. 20, 24-in. wheel, holds 150 feet ¾-in. hose, $5.50 each.
No. 30, 30-in. wheel, holds 500 feet ¾-in. hose, $9.25 each.



All-Iron Hose Reel No. 30



Perfection Tomato Support

Is 36 inches high, 12 inches wide, made of wood, and will not burn the vines in hot weather or cut them off when wet and swayed by the wind. Can be unfolded without damage and stored away for following season's use. 35 cts. each, $3.50 per doz.

Sawco Shears

For pruning. Especially recommended for florists' use, nurserymen and large estates, where the low price would warrant the purchase of the Shears in half-dozen and dozen lots. American made, of the finest steel; sharp cutting and long wearing. Each, $1.50, doz. $17.



Sawco Shears

PRICES SUBJECT TO MARKET CHANGES

The Stumpp & Walter Co. Ball-Bearing Lawn Mower

ALWAYS READY, EASY-RUNNING, NOISELESS, SELF-SHARPENING; PERFECT ADJUSTMENTS.
WILL CUT GRASS 6 INCHES HIGH



The Stumpp & Walter Co. Ball-Bearing Lawn Mower is universally a family Mower. Most anybody—man, woman or child—can use it with little exertion. It is a high-grade standard machine, adopting only the best features in its construction. The cutting parts are made of oil-hardened crucible tool-steel. The knives and blade will hold a durable edge and will not dull as the softer cutting parts of other Mowers do. The lawn is shaved smooth and even and without corrugations. The simple adjustment sets the machine to shave the lawn to ½inch or up to 1½ inches as may be desired. See the illustration which is a photograph of actual results. The expense of mowing a lawn is reduced to a minimum with the S. & W. Co. Lawn Mower. The durability of this Mower is unquestionable. It does not have to go to the repair shop each season as do frequently the lower-priced Lawn Mowers.

The construction of this Lawn Mower has overcome the bobbing up and down and gouging that is common to some hand Mowers. The axle revolves in extra-large balls placed in hardened tool-steel cones and cups, and is driven with three gears on each side, by two 10-inch traction wheels. These wheels are made durable and are not easily broken.

This Lawn Mower is made to give good and long service, and with ordinary good care will last years. We take the liberty to recommend the S. & W. Co. Ball-Bearing Lawn Mower to be the best all-round Lawn Mower of its type manufactured. We guarantee it to give entire satisfaction. The S. & W. Co. Lawn Mower is made in four sizes.

Size	Gross weight	Net weight	Price	Grass Catcher
14-inch cut	65 lbs.	40 lbs.	$17 00	$3 25
16-inch cut	67 lbs.	42 lbs.	18 50	3 50
18-inch cut	71 lbs.	45 lbs.	20 00	3 75
20-inch cut	76 lbs.	48 lbs.	22 00	4 25

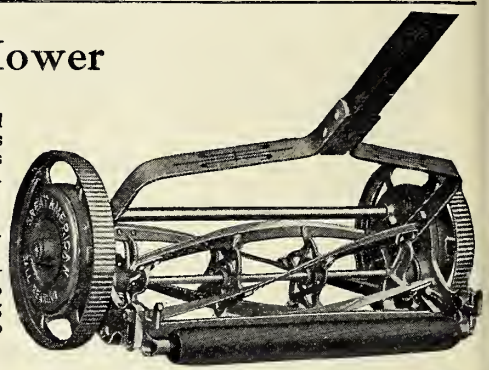
Super Great American Lawn Mower

BALL-BEARING

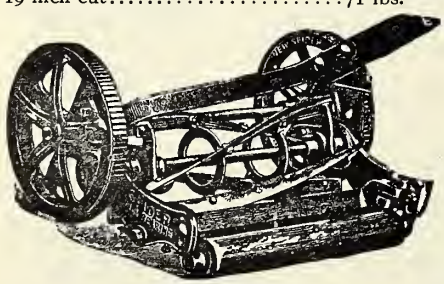
The Great American is a double-gear machine with five knives made of crucible tool steel of the very highest quality, oil-tempered, and water-hardened. Its bottom knife is of the same quality and self-sharpening. The case-hardened tool steel cones and cups in which extra-large balls revolve in conjunction with the very high wheels (10 inches in diameter), make it one of the easiest running Lawn Mowers on the market.

The Great American, as a machine for the home lawn, is unsurpassed in quality, durability, and the perfection of its working parts. It is a machine of the very highest class in every respect.

Size	Gross weight	Net weight	Price	Grass Catcher
15-inch cut	65 lbs.	42 lbs.	$19 50	$3 50
17-inch cut	67 lbs.	44 lbs.	22 50	3 75
19-inch cut	71 lbs.	48 lbs.	25 00	4 00



Super Great American

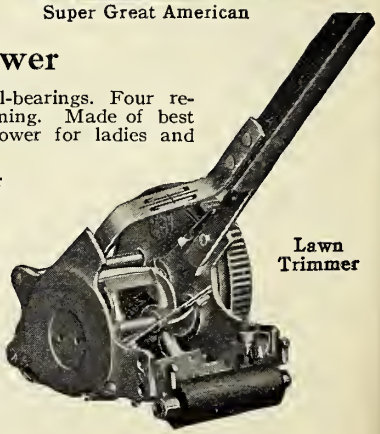


Townsend Flyer

Townsend Flyer Mower

The best low-priced Mower made with ball-bearings. Four revolving blades, flexible bottom knife, self-sharpening. Made of best materials. A very easy-running and light Mower for ladies and children to operate.

Size	Price	Grass Catcher
12-inch cut	$10 00	$3 00
14-inch cut	11 00	3 25
16-inch cut	12 00	3 50
18-inch cut	13 00	3 75

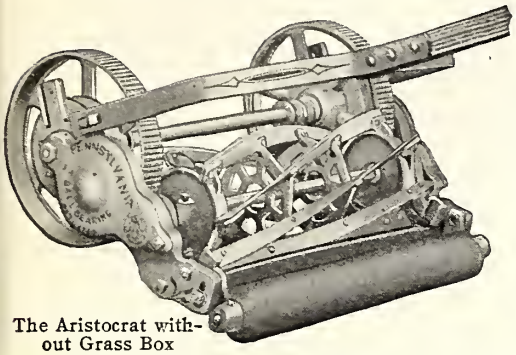


Lawn Trimmer

Pennsylvania Ball-Bearing Lawn Trimmer

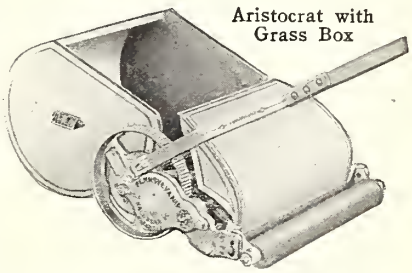
Made to meet the demand for a serviceable tool to take the place of grass shears and other devices for cutting grass left at the edge of lawns, around flower-beds, etc. Will cut to within ⅜ of an inch of walls, fences, walks, etc., and will mow any border wide enough to run one wheel on. High 8-inch wheel; runs easily; self-sharpening. Width of cut 6 inches; gross weight 26 lbs.; net weight 20 lbs. Price, $10.50.

Mowers for Golf Courses and Tennis Courts



The Aristocrat without Grass Box

The Aristocrat Golf Mower, Ball-Bearing



Aristocrat with Grass Box

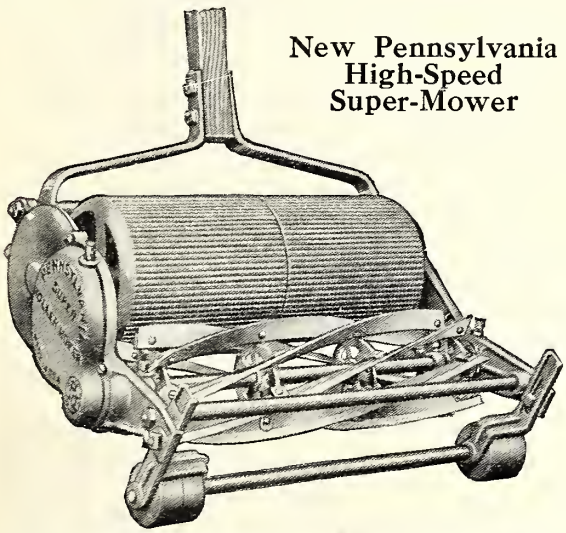
The Aristocrat is the acme of putting-green Mowers. Extreme tests have proved this machine superior to all other Mowers in keeping the greens in first-class condition. The Aristocrat was specially designed for putting-greens. Consideration was exercised in the construction of this machine to give the longest service, ease of adjustment and operation, and the best possible satisfaction that can be obtained from a Golf Mower. The life of this Mower is long compared with the other styles of Golf Mowers. The seven revolving blades and the bottom knife are the best crucible tool-steel, oil-tempered and water-hardened. A double train of gears drives the revolving blades from two 9½-inch traction wheels. The greens are shaved to $\frac{3}{16}$ of an inch and left even and smooth. The Aristocrat is ball-bearing, runs easily, and does not jump when starting.

Considerable weight of the Mower is carried by the iron roller, which rolls the worm casts and assists in keeping the green true and even. Wherever the Aristocrat has been given a thorough test, it has been accepted and given the preference. The illustration with the Grass Box attached shows the Aristocrat complete, and the way it should be operated to obtain the best results.

The Aristocrat is used exclusively and highly recommended by many of the best golf, tennis and cricket clubs.

Size	Gross weight	Net weight	Price	Grass Box
17-inch cut	102 lbs.	72 lbs.	$34 00	$8 00
19-inch cut	104 lbs.	76 lbs.	38 00	8 00

New Pennsylvania High-Speed Super-Mower



The New Pennsylvania High-speed Super-Mower is a high-geared, 7-blade machine of the roller-drive type, the rollers being made of aluminum. Every moving part runs either on roller- or ball-bearings. The train of cut gears is enclosed in a grease-tight case, protected from rain, dust, and grass-clippings, so that they revolve in a bath of oil. Alemite lubrication throughout. A light wheel carriage facilitates transportation of the Mower from green to green.

The New Pennsylvania High-speed Super-Mower leaves a wonderful "finish" to the turf, without the slightest trace of ridging.

Obtainable in only 18-inch size. $50 each; Grass-Box, $8; and light Wheel Carriage, $5 additional. Complete outfit $63, f. o. b. New York.

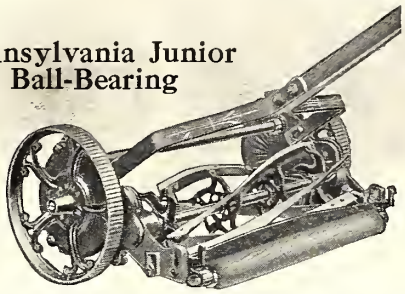
Pennsylvania Undercut Ball-Bearing Trimmer

The unique construction of this Trimmer permits cutting, not only close up to a wall, fence, tree, etc., but, it *will get the grass under fences and other places* hitherto out of reach of anything but hand shears. $12 each.

Leather Horse Boots (QUALITY KIND)

Easily attached to the horse's feet; prevent marring the lawns. Frequently after rains, or in the spring, the lawns are soft and easily cut up. Use a good leather boot and save the lawn. Quality Kind are well made. Double-thick soles and uppers reenforced; heavy parts put together with copper rivets. Per set of four: Small size, $20; medium size, $21; large size, $22; extra large size, $23.

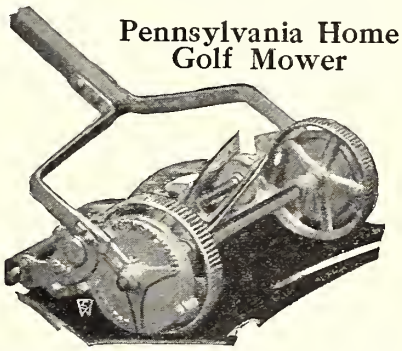
Pennsylvania Junior Ball-Bearing



The perfection of Lawn Mowers. The Pennsylvania Junior has all the good features incorporated in a perfect Lawn Mower. The five revolving blades are driven by a triple set of gears and a 10-inch traction wheel from each side. The revolving blades and the bottom knife are the best crucible tool-steel, oil-tempered and water-hardened. The Pennsylvania Junior is particularly adapted for the cutting of tees and approaches.

Size	Gross weight	Net weight	Price	Grass Catcher
15-inch cut	71 lbs.	48 lbs.	$27 00	$3 50
17-inch cut	74 lbs.	51 lbs.	30 50	3 75
19-inch cut	77 lbs.	53 lbs.	34 50	4 00
21-inch cut	80 lbs.	55 lbs.	38 50	4 25

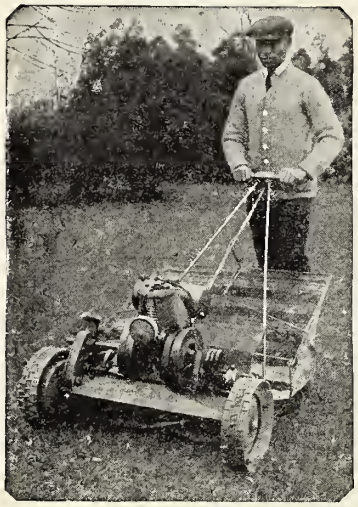
Pennsylvania Home Golf Mower



Low wheel, plain bearings, for home greens

This Mower is especially adapted for small golf links, tennis courts, bowling greens, and cricket creases. Can be adjusted to cut $\frac{1}{16}$ of an inch, practically shaving the lawn. Size, 16-inch; gross weight 67 pounds; net weight 37 pounds; price, $25; grass box $8.

Four-Acre Heavy Duty Power Lawn Mower



Four-Acre Heavy Duty Lawn Mower, 24-Inch Cut

THE PINNACLE OF PERFECTION IN HEAVY DUTY POWER MOWERS

THE FOUR-ACRE HEAVY DUTY MOWER is a powerful grass-cutter, sturdy as a tractor—the handiest and most economical Power Mower on the market. Performance is the standard by which Power Mowers are judged, and in this respect the Four-Acre Heavy Duty is in a class of its own.

THE MOTOR is specially designed, air-cooled, has forced-draft and throttle control; starts easily, is powerful and reliable.

INDEPENDENT CONTROL of power on cutting unit and traction allows it to travel over stony roadways, up and down curbings, etc., without revolving cutting unit. In case any sticks or stones become caught in the cutter blades, the reel clutch will slip, leaving knives uninjured.

Price $295, f. o. b. New York. Grass Box, $6 extra

Heavy Duty Sulky

With the use of this attachment the driver is able to cover 6 to 7 acres per day instead of 4. **Sulky only, $45 extra. Mower, with Sulky, $340.**

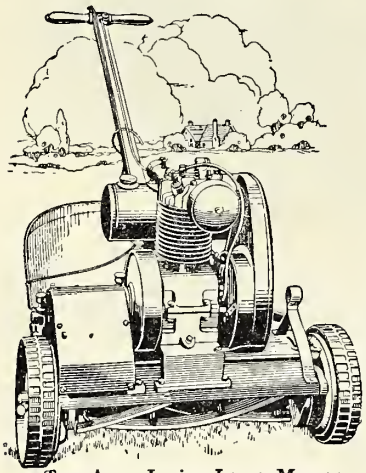


Four-Acre Mower with Sulky

Two-Acre Junior Lawn Mower

19-INCH CUT

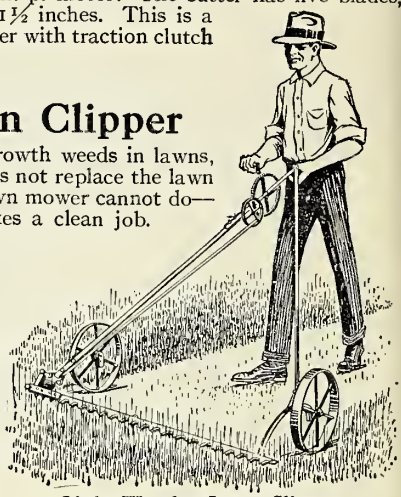
Designed especially for moderate-sized lawns and lawns broken up with numerous obstructions. Cuts 2 acres a day on less than 1 gallon of gasoline at a speed which may be varied from 2 to 2½ miles per hour. Has a four-cycle ¾ h. p. motor. The cutter has five blades, which may be adjusted to cut the grass from ½ to 1½ inches. This is a durable and efficient machine, fully guaranteed. Mower with traction clutch only, $195 f. o. b. New York. Grass-Box $4 extra.



Two-Acre Junior Lawn Mower 19-Inch Cut

The Little Wonder Lawn Clipper

The Little Wonder Lawn Clipper mows rapid-growth weeds in lawns, that spring up between regular mowing days. It does not replace the lawn mower, but does both quickly and easily what the lawn mower cannot do—tops the tall growth so that the lawn mower makes a clean job. 40-inch cut. **Price $40.**



Little Wonder Lawn Clipper

Ideal Power Lawn Mowers

Satisfactorily meet every grass-cutting requirement

They have been designed by mower experts—and all are built complete, from cutters to motors, in the Ideal factory. Every unusual condition which might be encountered is fully provided for in the design of Ideal Mowers. All Models work efficiently over irregular surfaces, through tough, coarse grass, and over hilly grounds.



Ideal, Model 30

THE ALL-PURPOSE MOWER

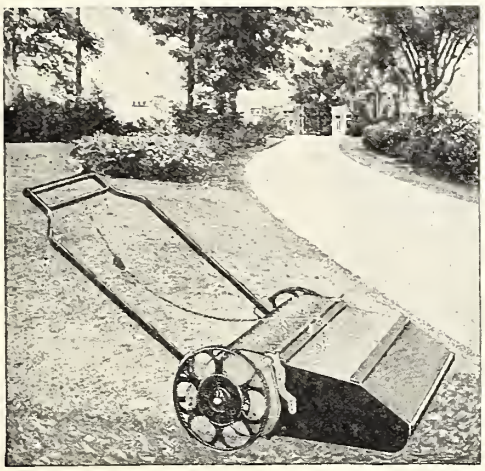
This is the most widely used model, because it is adaptable to the widest range of uses. The heavy traction roller smooths out the lawns as it cuts. Loosely suspended cutting unit tilts to cut over irregular ground, and convenient lever lifts cutting unit entirely off the ground for crossing walks, drives, etc. An all-purpose Mower that is simple, easy to operate, and cuts close up to trees, shrubbery, and flower-beds. 30-inch cut. Price, $385, f. o. b. New York.

Ideal Junior

Rolls as it cuts—freely suspended cutting unit which is raised or lowered at will. Especially valuable on small grounds, cemeteries, and as an auxiliary to the Model 30. Unequaled for trimming in close quarters. Width of cut, 22 inches. Can also be supplied with an interchangeable, high-speed cutting unit which the green-keepers on many country clubs state gives splendid results on the putting-greens. Price $265, f. o. b. New York.

Lawn Cleaners, Golf Sweepers, and Lawn Rollers

PRICES SUBJECT TO MARKET CHANGES



Stumpp & Walter Co.'s Lawn and Golf Sweeper

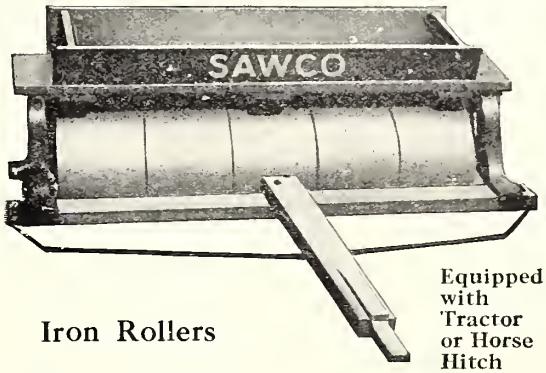
Is equipped with Palmetto Brushes of the toughest fiber and unaffected by water. Sweeps and gathers fresh-cut and dead grass, leaves, stones, and other litter. A real necessity for the quick and economical sweeping of lawns and golf-courses. Labor-saving, efficient, and durable machine. This new Sweeper is practically an all-year-round machine, for wherever there is a plane surface to be swept, whether sidewalk or porch, the S. & W. Co.'s Lawn and Golf Sweeper will do the work easier and quicker. Width, 28 inches. Net weight, 84 lbs.; gross weight, 106 lbs. Price $36.

Extra Wheels without Rubber Tires $5 each. Brush Reel, 28-inch complete with brushes $13. Grass-Box, 28-inch size, $10.

Pennsylvania Putting-Greens Lawn Cleaner

The PENNSYLVANIA Lawn Cleaner and Rake is quickly converted into an efficient Cleaner for removing worm-casts from putting-greens without injury to the turf and in a tenth of the time consumed by usual methods. The three steel rakes are removed and the brushes substituted. The brushes are made of high-grade fiber, set in a hardwood head, and give long wear. Moisture will not injure the brushes, and owing to the construction of the machine, they are easily removed for cleaning or for interchanging with the raking cylinder. The machine is not taken apart during this operation. 24-inch sweep, $30; 36-inch sweep, $42.50.

Brushes, per set of 3, 24-inch, $7; 36-inch, $9.



Iron Rollers

Equipped with Tractor or Horse Hitch

This Roller is manufactured to do heavy work. Is used with excellent success on golf-courses and private estates, on roads and lawns. Has strong, plain bearings, pulls directly from the axle, and is equipped with a substantial weight box for additional weight. Each section is turned smooth on the surface with outer edges beveled.

Pole and whiffle-trees or shafts will be furnished instead of tractor hitch without extra charge.

No.	Diameter	Length	Sections	Weight	Price
61	20 in.	60 in.	5	1,150 lbs.	$106 00
63	24 in.	60 in.	5	1,450 lbs.	133 50
73	24 in.	72 in.	6	1,700 lbs.	153 00
76	28 in.	72 in.	6	1,950 lbs.	175 50

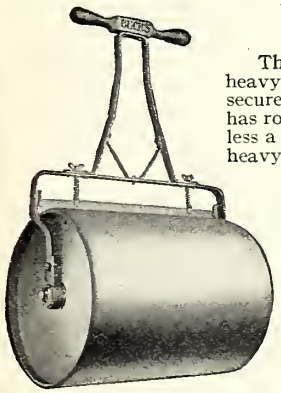


Spike Rollers

Invaluable for the greenkeeper, groundsman, and large lawn owner. The secret of fine turf is largely a matter of continued top-dressings; these top-dressings are much more effective if their application is followed by a good spike-rolling and then a brushing. This places the compost *just where it is needed*, namely, 1 and 2 inches down *into* the soil. An occasional spike-rolling will open "hide-bound" turf, correct the results of excessive heavy rolling, and facilitate circulation of air and moisture in the soil.

Hand Spike Roller for putting-greens, tennis-courts, and small lawns, $120.

Horse Spike Rollers. For golf fairways, polo-fields, and large lawns. 3 ft. 1-horse (1,600 lbs.) $375; 5 ft. 2-horse (2,000 lbs.) $425.



Fill it with Water or Sand

Stumpp & Walter Co.'s "Water-Ballast" Lawn Roller

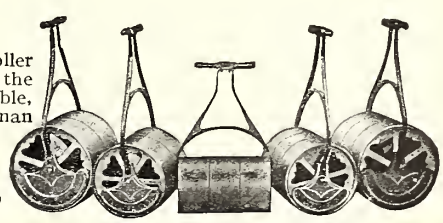
The Stumpp & Walter Co.'s Water-Ballast Roller is a most satisfactory Roller. The construction consists of three heavy steel plates, pressed together and electric-welded, forming one solid steel drum with no leaky joints; handles are securely attached as shown in the illustration. A scraper keeps the Roller clean. It is easy to pull. The drum has rounded edges to avoid tearing the turf. The Roller is filled with either water or sand, and by using more or less a weight is obtained which is most suitable for the conditions—light for moist lawns, medium for dry lawns, heavy for paths. The weight of each Roller empty and filled is given with the diameter and length below.

No.	Diam. in.	Length in.	Sections	Weight empty lbs.	Filled with water lbs.	Price
605	14	20	1	70	175	$15 00
606	18	24	1	85	265	18 00
603	24	24	1	110	420	23 00
604	24	32	1	130	565	26 00

Cast-Iron Hand Lawn Rollers

Made in one, two, and three sections. The face of each Roller is made smooth, with outer edges rounded to avoid cutting the lawn or garden. The Rollers of two or more sections are preferable, as they will not injure the grass when turning. The best one-man Rollers are those averaging from 300 lbs. to 450 lbs.

No.	Sections	Diam. in.	Length in.	Weight lbs.	Price
1	2	15	15	150	$15 00
2	3	15	22	200	19 00
7	2	20	24	300	28 00
8	3	20	30	350	$34 00
10	2	24	24	450	42 00
13	2	28	24	500	48 00



Cast-Iron Hand Lawn Rollers



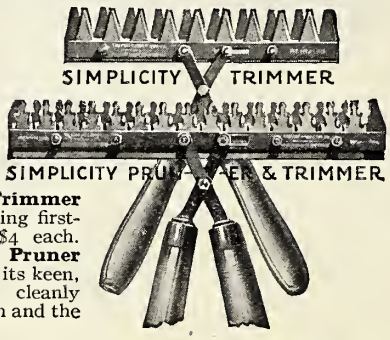
Celery-bleaching Tubes

Labor and money-savers. The brass Handler is placed around the celery plant, the tube is slipped in place and the Handler removed.

	Doz.	100	1,000
12 inches high	$1 00	$6 00	$50 00
13 inches high	1 10	6 50	55 00
14 inches high	1 25	7 00	60 00

Handlers for use in placing tubes, brass, $5.

Simplicity Trimmer



The Simplicity Trimmer is designed for trimming first-year growth only. $4 each.

The Simplicity Pruner and Trimmer, with its keen, fluted teeth, cuts cleanly through the old growth and the new. $6 each.



The Cahoon Improved Broadcast Seed Sower

It is well known as a practical and cheap broadcaster of wheat, rye, oats, barley, hemp, timothy, and millet, but not recommended for lawn or grass seed. The operator can sow from 4 to 8 acres per hour. $5 each.





A most practical instrument. It scatters seeds individually and prevents crowding and choking of the seedlings when coming up. Is of great assistance in sowing. Small size, for fine seeds, $1; large size, for larger seeds, $1.

HEDGE SHEARS

Sheffield Hedge Shears, Finest English Steel

Solid steel blade, crucible tool-steel, tempered to hold an edge. Give good service. Shears with notch are the best for cutting heavy stems of hedge plants.

	Plain Each	With Notch Each
8-in. blade, weighs 4 lbs	$2 90	$3 25
9-in. blade, weighs 4 lbs	3 25	3 50
10-in. blade, weighs 4 lbs	3 50	3 75
Ladies	2 50	



Hedge Shears

American Hedge Shears

8-in. blade	$2 00	$2 25
9-in. blade	2 25	2 50
10-in. blade	2 50	2 75

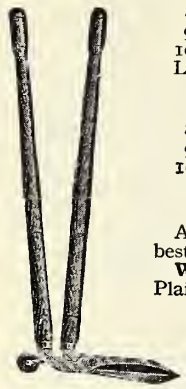


Grass Shears

S. & W. Co.'s Grass Shears

A very simple but practical locking device holds the Shears together. Made of the best crucible tool-steel; polish finish. One size only, 6½-in. blade, $2.50.

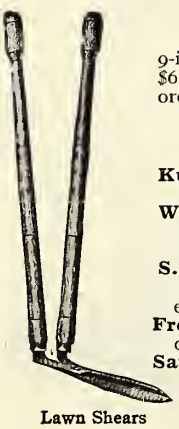
Western Grass Shears. Made of good-quality tool-steel. A one-piece Shears. Plain finish, 6-in. blade, $1.50.



Border Shears

Grass Edging or Border Shears

Designed to trim the overhanging grass on borders around flower-beds and walks. 9-in. blades of high-grade tool-steel; polished handles and blades. Without wheel, $5.50; with wheel, $6.



Lawn Shears

Lawn Shears

Designed to cut grass under hedges, fences, grape arbors, and flower-beds or shrubs. 9-in. blades of high-grade tool-steel, polished handles, and blades. Without wheel, $6; with wheel, $6.75. *Notice:* When shipping the above Shears, unless stated on orders, we send Shears with wheel.

Pruning Shears

Kunde. This pruning shears can now be obtained from abroad. It is very durable. Solid steel, $5. Extra blades, $1.50 each.

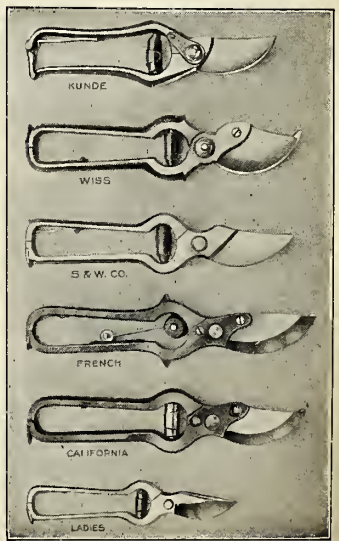
Wiss. Made in America. Crucible tool-steel; blades are detachable; tempered to hold an edge; will not break. Made in two sizes. 9-in. $4; 10-in. $4.50. Extra springs, 50 cts. each; extra blades, $1.10 each.

S. & W. Co.'s Solid Steel. Crucible tool-steel. Blade and handle are one piece of polished steel; a ratchet nut keeps the Shears properly tightened; will not break; excellent finish. Made in three sizes. 8-in. $3.25; 9-in. $3.50; 10-in. $3.75.

French. Made of good-quality tool-steel; flat roller spring; works easily and cuts well; detachable blades; plain finish. Made in two sizes. 8-in. $2.25; 9-in. $2.75.

Sawco. Made of high quality steel. A very good Shears for grape-vines and shrubbery. $1.50.

Ladies' Nickel-plated. Light, practical, handy to use on roses and shrubbery. 6½-in. $2.50.



Pruning Tools and Orchard Supplies

PRICES SUBJECT TO MARKET CHANGES



Compound-Lever Pruner

Compound-Lever Pruner

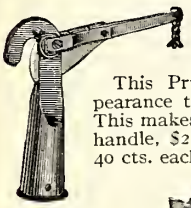
Working parts, being made from forgings, are very strong, without being unnecessarily heavy, and the strength, durability, easy cutting qualities of this tool appeal to all who have occasion to use a strong and powerful Pruner. 10 ft., $5; 12 ft., $5.50; 14 ft., $6.25; 16 ft., $6.75.

Waters Tree Pruner

This Pruner has been before the public for over twenty-five years. It has numerous well-known advantages, and if a tool for ordinary pruning is required, the Waters will give entire satisfaction.

6-ft.....$2 00	12-ft.....$2 75
8-ft..... 2 25	Extra Knives, each 30 cts.
10-ft..... 2 50	

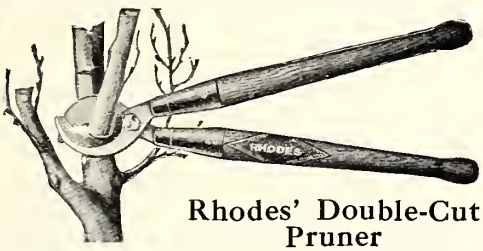




Telegraph Pole Pruner

Telegraph Pole Pruner

This Pruner is similar in appearance to but of heavier construction than the Waters. This makes it very strong and durable. Plain, $1.75; with handle, $2.00. Extra knives, 40 cts. each; extra springs, 40 cts. each.



Rhodes' Double-Cut Pruner

A good and powerful Pruner. Cuts from both sides of the limb, and does not bruise the bark. Long ferrules; handles do not pull out; blades are of the best forged steel. 30-inch, $5; 36-inch, $5.25.

PRUNING SAWS



Paragon Pruning Saw

Paragon Pruning Saw. A very good double-edge Pruning Saw, with the draw cutting and thrust cutting edges. Will cut large limbs better than the lighter Saws. 18-inch, $1.90; 20-inch, $2.10.

No. 4 Pruning Saw. Without this Saw no pruning outfit is complete. The tapering blade permits of its use in close places. Used for other purposes. A very useful Saw. 20-in., $2.25.



No. 4 Pruning Saw

Two-Man Crosscut Saw. Has Tuttle (Lightning) teeth; cuts easily and rapidly; thin back, will not bind. 4½-ft., $5.50; 5-ft., $7; 5½-ft., $7.50.

Buck Saw. Quality kind. $2.25.



Double-Edge Pruning Saw

Double-Edge Pruning Saw. Has fine teeth on one edge and "Lightning" teeth on the other. 16-in., $1.50; 18-in., $1.75; 20-in., $2.

PRUNING SAWS, continued

One-Man Crosscut Saw. Can be used also as a Two-Man Saw. Has "Lightning" teeth; cuts easily and rapidly.

3½-ft.....$5 00	4½-ft.....$6 50
4-ft..... 5 75	

Orchard Pruning Hook and Saw. Better adapted for pruning or sawing smaller branches than the Little Giant. Without pole, $3.



Little Giant Pruner and Saw

Little Giant Pruner and Saw Combined. The knife operates with a cord; a spring throws the knife back. Saw can be removed when desired; attaches to pole of any length. Without pole, $3.

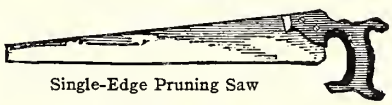


Combined Pruning Saw and Chisel

Combined Pruning Saw and Chisel. A handy tool; attaches to pole of any length. With a thrust the chisel cuts off small branches. The saw is for larger limbs. Without pole, $2.50.

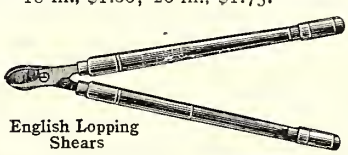


Orchard Pruning Hook and Saw



Single-Edge Pruning Saw

Single-Edge Pruning Saw. Best spring-steel. 18 in., $1.60; 20 in., $1.75.



English Lopping Shears

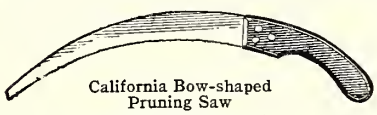
English Lopping Shears. The Shears are well known, and do good service.

No. 2. 24-in...	$4 50
No. 3. 28-in...	5 50
No. 4. 32-in...	6 25

Rhodes' Pole Pruning Saw. Attached to a light, 10-foot pole. Is adjustable to any angle. The Saw is a Paragon blade, made of the best spring-steel; has a draw and thrust cutting edge; saves a lot of climbing and risk of falling. $4.



Rhodes' Pole Pruning Saw



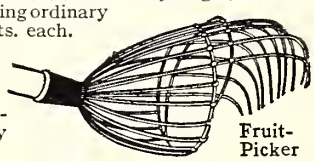
California Bow-shaped Pruning Saw

California Bow-shaped Pruning Saw. Excellent to use wherever two limbs are close together. Can be used in the forks without bruising the bark of other limbs. 12-in., $1.15; 14-in., $1.25.

Swivel Pruning Saw. Very handy to use where the limbs are close together. The blade is adjustable to cut from any angle; it saves the trouble so often found when using ordinary Saws. $2.50. Extra blades, 50 cts. each.

Perfect Fruit-Picker

Made of steel wire, heavily galvanized; can be attached to any pole. 60 cts. each.



Fruit-Picker

Asbestos Torch

Attach the Torch to the end of a pole; saturate with kerosene oil, light and hold under the caterpillars' nests, and pass quickly along the branches and around the trunk of the tree. The heat instantly destroys the insects and will in no way injure the trees. Without pole, 60 cts.



Asbestos Torch



Step-Ladder

Strongest and best Ladder manufactured. Made of ash; fine finish. Each step is braced and bolted. Only safe ladder to use 10 feet or over.

	Each
5-ft.....	$4 75
6-ft.....	5 60
7-ft.....	6 50
8-ft.....	8 40
10-ft.....	9 25

Rubber Hose, Menders, Nozzles, and Sprinklers

PRICES SUBJECT TO MARKET CHANGES

RUBBER HOSE



S. & W. Co.'s Special Brand (Wayahead). Surpasses all the cheaper grades of Hose. Its durability is not excelled by much of the higher-priced Hose. It is three-ply, seamless, and non-kinkable. Standard lengths, ¾-inch bore, 25 ft., $4.50; 50 ft., $8; 100 ft., $15.



Electric. Three-ply, non-kinkable, molded Hose. The strength and durability of this Hose place it with the very best grade of Hose manufactured.
Standard lengths, ¾-inch bore, 25 ft., $6.25, 50 ft., $12.
Standard lengths, ½-inch bore, 25 ft., $5.75, 50 ft., $10.50.
5 lengths or more. of 50 ft.. ¾-in. bore, cut and coupled, ft. 23 cts.
5 lengths or more, of 50 ft., ½-inch bore, cut and coupled, ft. 20 cts.

Golf-Course. This Hose is of double braid construction, the braid being incorporated in pure gum rubber and the outside cover is smooth, therefore non-abrasive. Will stand up and give satisfaction under conditions where ordinary garden Hose has failed. Less than 1,000 ft., 20 cts. per ft.; 1,000 ft. or more, 18 cts. per ft. On orders for 1,000 feet or more, the name of the Club will be branded on each length of Hose without charge.

HOSE NOZZLES

Stott's. A Nozzle that has become a favorite among rose-growers, etc., for exterminating red-spider. Splendid Nozzle for reaching under the foliage; gives a very fine, misty spray. Single, $1.75; double, $3.

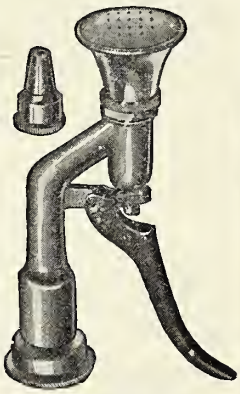
Justrite Spray. A very popular adjustable Nozzle. It gives a copious spray or a well-defined, full stream. Has a positive shut-off, by turning the barrel of the nozzle. 75 cts.



Bordeaux Spray Nozzle. A good Nozzle for whitewash and all heavy spray materials. $1.

Aquamatic Nozzle. Screws on to any lawn hose connection. The latest and best in garden hose Nozzles. Fits any ¾-inch garden hose connection. Gives a solid stream or spray. Has a positive automatic shut-off. Practical and durable in every way. $2.50 each.

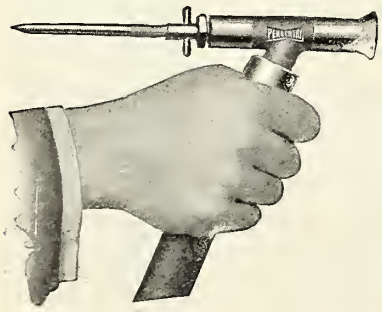
Hose Couplings, Regular. ½-inch, 20 cts.; ¾-inch, 30 cts. each.



HOSE MENDERS

Cooper's Brass. ½ and ¾-inch, 10 cts. each, $1 per doz.; 1-inch, 15 cts. each, $1.50 per doz.

Perfect Clincher. ½ or ¾-inch, 15 cts. each, $1.50 per doz.

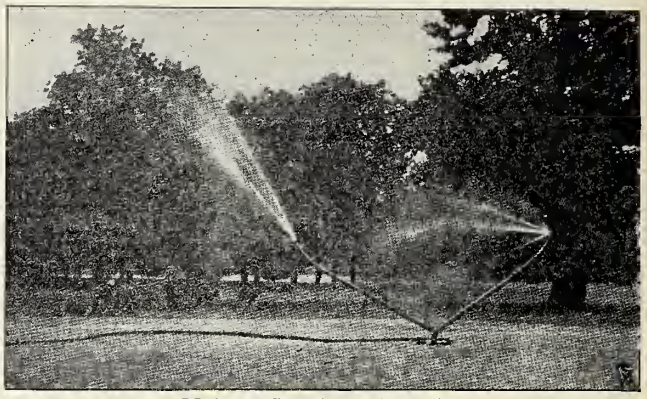


Water-Gun

The Water-Gun is the most convenient article of its kind ever offered and as a nozzle is much more adaptable than the old style.

As a sprinkler you can do things with it no one ever thought of trying before. Just stick the spike in the ground; put in at any angle. Price, $1.50 each.

Majestic Revolving Sprinkler



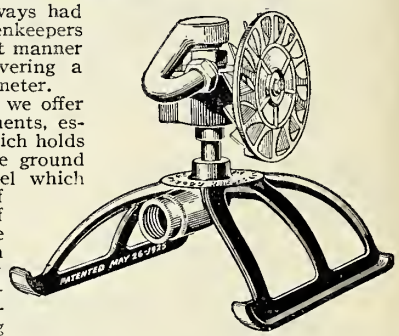
Majestic Revolving Sprinkler

The long-arm Majestic gives a fine spray. It is a slow-moving machine, and the water is warmed by the air before reaching the ground. Also, there being an appreciable period between each shower, the soil has time to absorb it before the next shower. Does not flood the turf, and may be left working for hours, if necessary, on one spot without the center becoming wetter than the outer areas. The Majestic is driven direct from the turbine blades at the base, without intermediate gearing whatever; wear and tear is thus reduced to a minimum. Will water thoroughly and evenly an area of from 800 to 1,000 square yards. Large size, 5-ft. arms, $10; medium size, 3½-ft. arms, $8.

Double Rotary Sprinkler, New Model

This Sprinkler has always had many friends among greenkeepers on account of the efficient manner in which it sprays, covering a circle up to 50 feet in diameter.

The new model which we offer includes many improvements, especially the skid base which holds it absolutely firm on the ground and the aluminum wheel which increases the distance of the spray. The gears of hardened steel and bronze are enclosed, and run in oil. They are so simple that it is very rarely necessary to make any adjustment, even after very long wear. $12.50 each.





Bamboo Spray Pole

SPRAY POLE FOR TALL-TREE SPRAYING

Bamboo Spray Pole

Bamboo Spray Poles are brass lined to resist the corroding effect caused by strong solutions. Each Spray Pole is equipped with a drip-shield at the top and brass shut-off at the bottom. Spray Poles over 10 feet are not entirely satisfactory, and we do not recommend them. 8 ft. $4.20, 10 ft. $4.60.

Full description of BARREL and HAND SPRAYERS, page 174

Test Your Soil with SOILTEX

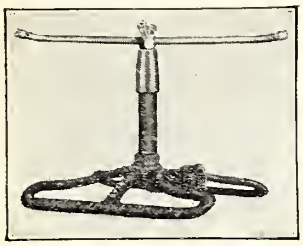
Does your land need lime? If so, how much? Soiltex will answer this question quickly. Outfits, containing solution, sample papers, directions and indicator chart, $1, post free.

LAWN SPRINKLERS

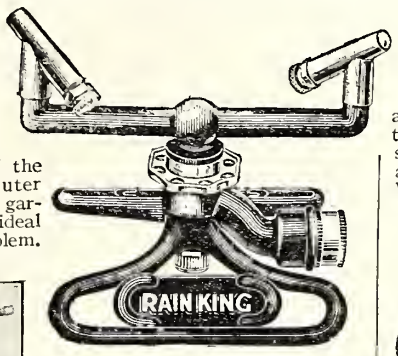
PRICES SUBJECT TO MARKET CHANGES

Rainstorm Sprinkler

The Rainstorm is so designed with two short center nozzles and two longer arms that it gives an even and thorough distribution of water from the very base of the Sprinkler to the extreme outer radius. For smaller lawns and gardens, the Rainstorm is an ideal solution of your sprinkling problem. Price, $2.



Rainstorm Sprinkler

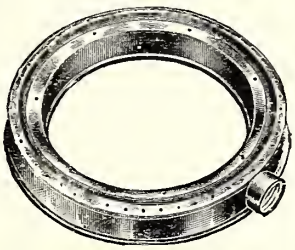


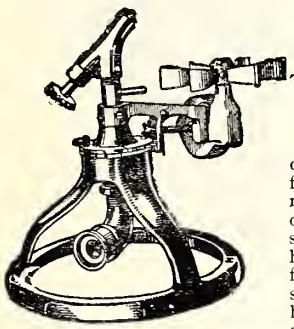
The Rain King

This is strikingly different from any other Sprinkler ever made. A wonderful combination: Circular or stationary spray, coarse or fine, fast or slow, large or small lawn, trees, shrubs, flower-beds—takes care of them all. $3.50.

Ring Lawn Sprinkler

The S. & W. Co.'s Ring Sprinkler is not to be compared with the cheaper Ring Sprinklers. It is made of brass, firmly constructed, and guaranteed to stand the water-pressure of any municipal water-works in the United States. 90 cts.



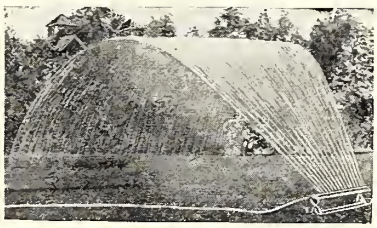


The Dayton Rotary and Oscillating Sprinkler

The Dayton is the most practical, durable, efficient Sprinkler devised for watering putting-greens and is now being used by thousands of lovers of a beautiful lawn or garden. It sprinkles in a circle. It sprinkles in a half-circle. It sprinkles from a 3-foot radius to a 40-foot radius. It sprinkles every inch of ground. It is better for your lawn or plants than sprinkling with a hose. It operates on any pressure from 15 pounds up. The nozzle can be adjusted to any kind of a stream. It pays for itself in water saved and convenience. It is made of the best brass, aluminum, and German silver. $8.

Waterfan

The new Automatic Oscillating Irrigation Sprinkler.

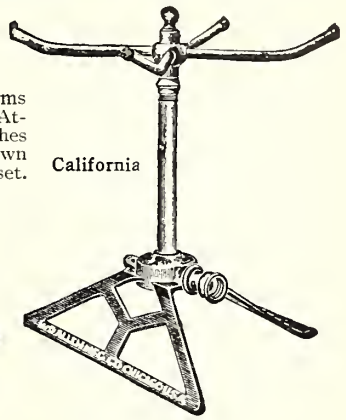


Waterfan in Operation

The Waterfan will quickly and thoroughly soak a rectangular area with a generous, gentle, mist-like spray which cannot wash or pack the soil or injure the most delicate seedlings. The plane of the spray oscillates back and forth, forming no puddles, but wetting the soil deeply without waste of a single drop of water. The wide fan-like shape (Waterfan) in which the water is projected from this small machine (22 inches long) to a width of 25 feet when it reaches the ground, is made possible by the diverging angles at which the outlet tubes are set in the distribution pipe. Price of the Waterfan, $16.50.

California Lawn Sprinkler

Is made with four arms. Arms and head are polished brass. Attached to a sled base, 10 inches square. Can be readily drawn about the lawn and will not upset. With 4 arms, $2.50.



California



Maid-of-the-Mist

Maid-of-the-Mist Sprinkler

An effective device for sprinkling lawns, gardens, or flower-beds. The water flows with unimpeded force, and is divided and deflected by the two lips of the swivel piece, which it causes to revolve rapidly, scattering the water in fine drops and evenly over a circular area of 25 feet. It works more satisfactorily with a very low pressure of water than any Sprinkler we know of. With sled $1.25.

Triple Spray Sprinkler

This has three waterheads, one throwing an upward spray and two (one on each end of the arm) which can be adjusted to any angle. When revolving, this type of Sprinkler will throw a spray covering a circular area of 60 feet diameter. $10 each.



Triple Spray Sprinkler

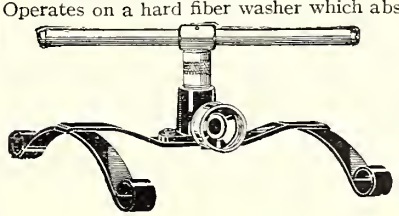
This sprinkler will work on a pressure as low as 12 pounds.

The C. B. G. Sprinkler

Is made on the well-known principle of the tangential spray. Nothing to get out of order. Will last a lifetime. It is easily drawn about the lawn without shutting off the water. 60 cts. each, $6 per doz.

Rainbow Revolving Sprinkler

The ideal Sprinkler for a low water pressure. Operates on a hard fiber washer which absorbs 20 per cent of water, furnishing a leak-proof and frictionless joint. This efficient little apparatus has proven through actual tests to deliver the maximum amount of spray on a low pressure; no wear and tear. Will water a circle of 40 to 50 feet in diameter. $2.50.



Sprayers for Applying Insecticides and Fungicides

PRICES SUBJECT TO MARKET CHANGES



SUPER AUTO-SPRAY

No. 100 Auto-Spray is made of extra-heavy metal to hold up under a pressure of 100 pounds, the pump is of small bore, so that this pressure can be pumped with little exertion. Handles and collar are very heavy brass, and the strap is adjustable and of the best of material. It is double riveted and specially soldered and tested carefully. The large capacity, extra-high pressure, extra strength, and beautiful appearance make it a super auto spray, and, as the name implies, is 100 per cent.

Tank made of galvanized steel or brass. High-grade hose. Castings for handle, etc., all malleable. No continuous pumping as in the case of the Knapsack Sprayer, nor continuous pumping or slopping as in the case of the bucket pump. A few strokes of plunger compresses enough air to cover a quarter acre of potatoes or similar crop. Extension pipes useful for spraying tall trees. Detailed descriptive circular on request.

Auto-Spray No. 100B. Brass Tank, with "Auto-Pop" and one 2-ft. extension rod $10 50

Auto-Spray No. 100D. Galvanized Tank, with "Auto-Pop" and one 2-foot Extension Rod 7 25

Two-row Attachments for spraying two rows at one passing ... 1 50
2-foot Brass Extension Pipe 60
18-inch Brass Extension Rod 60
Brass Elbows for spraying under vines 35
Torch 1 50
Brass Strainer for straining solution 1 20
Auto-Spray Nozzle 60

No. 50 Auto-Spray

This sturdy little machine is almost identical to Auto-Spray No. 100 in construction and manipulation, but has one-half the capacity, holding about 2½ gallons. It is particularly recommended for spraying on a smaller scale, and for use where weight is a factor, as when the women folk or youngsters help out with the spraying.

No. 50B. Brass Tank with Auto-Pop Nozzle $8 00
No. 50D. Galvanized Tank with Auto-Pop Nozzle 5 40

S. & W. BUCKET SPRAY PUMP



The S. & W. Spray Pump is a saving in the cost of small hand Sprayers. It is a quality Sprayer. This Pump is made of heavy seamless brass tubing, with a large brass air-chamber; it has brass ball valves; is double-acting and will produce a continuous spray or stream. A bordeaux nozzle, with 3 feet of ½-inch spray hose is furnished. The nozzle can be regulated to throw a very fine, medium, or coarse spray. We recommend this Sprayer as the best cheap hand Sprayer for applying whitewash, cold-water paint and disinfectants. When ordering Sprayer to be sent by parcel post, allow 10 lbs. for the packed weight of Sprayer. Price, $6.50.

Extra ½-inch hose, seven-ply, of good quality, is furnished at 30 cts. per foot.

Extra couplings, 50 cts. per set.



S. & W. CO.'S "FRUITALL" SPRAY PUMP

The "Fruitall" illustrated herewith has been designed especially to meet the demand for a low-priced Sprayer combining the necessary durability, efficiency, and strength.

Outfit C. Sprayer with agitator and one lead of 15 feet ½-inch discharge hose, with "Mistry Jr." spray nozzle. Price, without barrel, $21.50.

Outfit D. Sprayer with agitator and two leads, 15 feet each, ½-inch discharge hose, with "Mistry Jr." spray nozzles. Price, without barrel, $28.50.

We supply barrel (50-gallon capacity), and mount sprayer on it, for $7.50 extra, but the barrel is not furnished unless specially ordered.

POMONA SPRAY PUMP

The Best Barrel Spray Pump on the Market



It is of large capacity and powerful, with long adjustable leverage, so that it is easily operated by one person, when necessary, but is especially built for spraying from two leads of hose. The unusually large steel air-chamber gives sufficient pressure for a continuous and regular spray. All working parts are of brass, including plunger and valves, which are easily accessible; it has a paddle agitator. The bulk of the pump goes within the barrel, it is not top-heavy, and does not catch low branches.

Pomona Outfit A. Sprayer with agitator and one lead of 15 feet of ⅜-inch spray hose, with "Mistry Jr." Spray Nozzle.
With barrel (50 gallons) $45 65

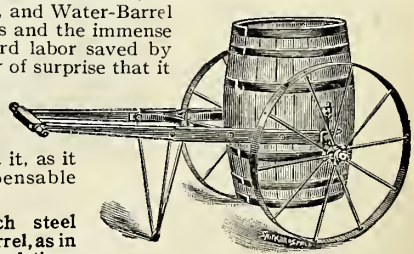
Pomona Outfit B. Same as the above, except with two leads of hose and two nozzles. (See cut.)
With barrel (50 gallons) $53 00
Extra trunnions for barrel, $1 per pair.
S. & W. Co.'s Truck is recommended to save time and labor.

RUBBER SPRAY HOSE

High-pressure, ½-inch bore, nine-ply Hose is best. 30 cts. per foot. Low pressure, ½-inch bore, seven-ply, 20 cts. per foot. Couplings and clamps, 25 cts. extra.

S. & W. CO.'S TRUCK, LEAF-RACK AND WATER-BARREL COMBINATION

When we consider the almost innumerable uses to which our combined Truck, Leaf-Rack, and Water-Barrel can be put, its handiness and the immense amount of time and hard labor saved by its use, it is not a matter of surprise that it is steadily growing in popular favor. It is one of those articles that causes the user to wonder how he ever did without it, as it really becomes indispensable when once used.



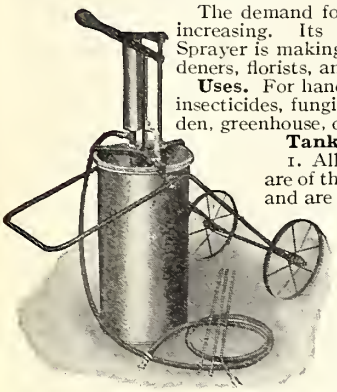
Prices: Truck, 3-inch steel wheel, $15; truck and barrel, as in cut, with steel wheels, 3-inch tires, $20; handy cart box, 38 in. long by 24 in. wide by 10 in. deep, $7.50 extra; leaf-rack, 42 in. long by 28 in. wide by 21 in. deep, $12.50 extra; complete with truck, with steel wheels, 3-inch tread, water barrel, handy cart box, and leaf-rack, $40. Sprinkler attachment, can easily be adjusted to barrel, extra, $10.

Sprayers for Applying Insecticides and Fungicides

PRICES SUBJECT TO MARKET CHANGES

S. & W. Co.'s Paragon Sprayer No. 3

CAPACITY, 12 GALLONS



The demand for this portable Sprayer is rapidly increasing. Its efficiency as a general-purpose Sprayer is making it popular with hundreds of gardeners, florists, and poultrymen.

Uses. For handling whitewash, cold-water paint, insecticides, fungicides, and all solutions in the garden, greenhouse, or poultry plant.

Tank. Heavy galvanized steel.

1. All the valves used in the Paragon are of the latest approved self-seating type and are made of solid brass.

2. The air-chamber of the Paragon is of all brass and of sufficient capacity to insure a steady spray of high pressure when the pump is operated at a moderate speed.

3. The Paragon pump cylinder is cast of special metal, is accurately machined, and will outwear several ordinary pump cylinders.

4. The Paragon containers are made up of heavy black iron, then heavily galvanized after being completely assembled. This method insures no raw edges and tight joints.

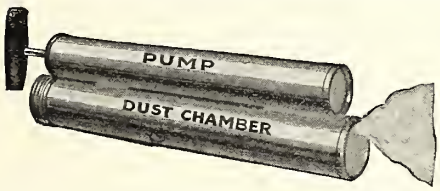
5. The Paragon agitator is of galvanized iron, positive in action, keeping the solution thoroughly mixed.

6. The circular strainer on the end of the suction pipe contains 16 square inches of strainer surface and is automatically cleaned by the all-metal agitator at each stroke of the pump. This combination insures the non-clogging of the Paragon and is the greatest improvement made in spray pumps.

Mounted on truck with two 12-inch wheels. Price, $25. Without Truck, $21.50.

Equipment: 10 feet Special Spray Hose, 7½ feet Extension Pipe, 1 Mist Nozzle, 1 Steel Cap, 1 Straight Spray. A single wheel truck with 16-inch wheel will be furnished with the No. 3 Sprayer when desired.

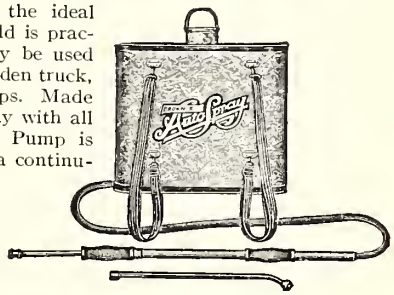
S. & W. Co.'s Double-Barrel Dust Gun



A simple device for applying dry powder insecticides and fungicides without waste and with the least possible effort. It blows the powder onto the plants. Insecticides which may be applied economically with this Dust Gun include hortex, tobacco dust, bug death, hellebore, Paris green, arsenate of lead, etc.; fungicides which may be used with it are Semesan, bordeaux powder, grape dust, powdered sulphur, etc. Price 75 cts.

Double-Acting Pump Sprayer and Knapsack Tank

THE SAME SPRAY WITH HALF THE LABOR



Pump. This Pump is the ideal all-purpose sprayer. Its field is practically unlimited, as it may be used for spraying trees, vines, garden truck, potatoes, and any field crops. Made entirely of brass, doing away with all danger of corrosion. This Pump is double-acting, which gives a continuous spray, a distinct advantage over single-acting Pumps in that *the pump works on both the up and the down stroke.* The Pump cylinder is small in diameter, and in a test a pressure of 180 pounds to the square inch was raised with very little labor.

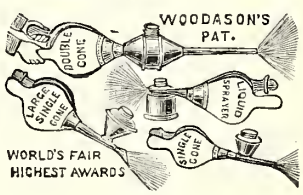
Knapsack is made of heavy galvanized iron and fitted with strong web shoulder straps. Capacity about 5 gallons.

PRICES

Knapsack only	$3 50
Pump only	5 00

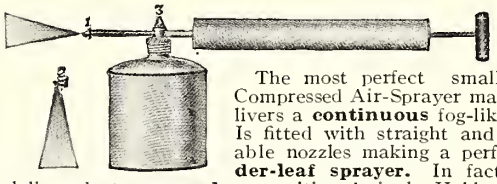
Bellows, Woodason's

Powder, small size	$3 50
Powder, large size	4 75
Liquid, small size	4 25
Liquid, large size	4 75



Double-Cone Powder Bellows. For dusting plant with dry powders for insects and fungus. $7.25.

S. & W. Co.'s Compressed Air-Sprayer



The most perfect small hand Compressed Air-Sprayer made. Delivers a **continuous** fog-like spray. Is fitted with straight and adjustable nozzles making a perfect **under-leaf sprayer.** In fact, spray can be delivered at **any angle** or position desired. Holds 1 quart. Weight 2 lbs. Made in solid sheet brass, highly polished, $2.25. Galvanized, $1.25; tin, 85 cts.

S. & W. CO.'S BRASS SYRINGES

These Syringes are applicable for all horticultural purposes in the conservatory and garden. They are fitted with roses and jets for ejecting water in one stream or dispersing it in a fine or coarse spray, as required. Specially adapted for applying fluid insecticides.



No. A. Barrel, 12 in. long, diam. 1 in. One spray rose and one jet, $3.50. Weight, 3 lbs.



No. G. Barrel 16 inches long, diam. 1½ in. One spray rose and one stream jet, side attachments and elbow joint for sprinkling under foliage, $6.50. Weight, 4 lbs.



No. H. Sheet-brass Syringe, with fixed spray rose. Barrel 16 inches long, diam. 1½ inches, $4.25. Weight, 4 lbs.



No. 2. Barrel 13½ inches long, diam. ⅝ in. One coarse and one fine spray rose and one jet, side attachment, $5.75. Weight, 4 lbs.



No. 10. Barrel 18 inches long, diam. 1½ inches. One coarse and one fine spray rose and one stream jet, with patent valves and elbow joint for sprinkling under the foliage, $9. Weight, 5 lbs.



No. 11. Same as No. 10, without patent valves, $7.50. Weight, 5 lbs.

REMEDIES FOR INSECTS AND FUNGUS

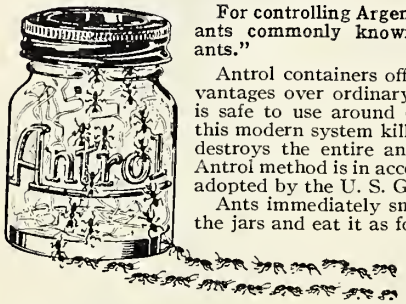
*NOTE.—Insecticides marked * can be sent by Parcel Post at purchaser's expense. Consult your local post office for rate from New York*

ALL PRICES SUBJECT TO MARKET CHANGES

Antrol



The National Ant Control



For controlling Argentine and species of house ants commonly known as "honeydew loving ants."

Antrol containers offer you three distinct advantages over ordinary methods. First, Antrol is safe to use around children or pets; second, this modern system kills the queen ant and thus destroys the entire ant colony; and third, the Antrol method is in accordance with the methods adopted by the U. S. Government.

Ants immediately smell the Antrol Syrup in the jars and eat it as food. They climb into the jars through the openings provided for that purpose in the top of the containers, and down the tiny bits of excelsior which operate as "ladders" into the syrup. The ants then carry this syrup, which is mildly poisonous, back to the ant nest, and in this way transmit it to the queen ants and their entire colony. Soon the entire ant colony is destroyed and your home is free from the ravages of these annoying pests.

Antrol Cottage Sets (containing 9 jars and 6-oz. Bottle of Syrup)	$1 90
Extra Jars	20
Pint Bottles of Syrup	1 00
Gallon Cans of Syrup	4 00

Arsenate of Lead, Powder. Better than Paris green, does not burn the foliage, goes twice as far, and is easier to handle. Dilute 1 pound to 50 gallons of water. ½lb. 25 cts., lb. 50 cts., 5 lbs. $2, 10 lbs. $3.50, 25 lbs. $8, 100 lbs. $24.

Bentley's Mildew Specific No. 1. Non-poisonous. For use under glass. Recommended very highly for roses, chrysanthemums, cucumbers, melons, tomatoes, etc., affected by mildew and aphis. Free from disfiguring effects of sulphur; uninjurious to paint. ½gal. $6, gal. $10.

Bichloride of Mercury (Corrosive sublimate). Poison. Occasionally recommended for killing earthworms in lawns. Lb. $3.50. Special quotations on quantity.

Black-Leaf 40. A concentrated solution of nicotine sulphate; an excellent spray for aphis and sucking insects of all kinds. Dilute one part to 900 or 1,000 parts of water, according to treatment. Full directions on each package. 1-oz. bottle 35 cts., ½-lb. tin $1.25, 2 lbs. $3.50, 10 lbs. $13.50.

Bordeaux Mixture, Dry Powder. The recognized fungicide for the control of most fungous diseases of fruits and ground crops. Dilute 4 to 4½ pounds to 50 gallons of water. ½lb. 25 cts., lb. 40 cts., 5 lbs. $1.50, 10 lbs. $2.75, 25 lbs. $5.75, 50 lbs. $10, 100 lbs. $18.

Bordo-Lead, Dry Powder. Insecticide and fungicide consisting of arsenate of lead and Bordeaux Mixture in dry form. It has sufficient arsenate of lead to kill chewing insects and sufficient Bordeaux Mixture to control most fungous diseases, blight, rot, and mildew. ½lb. 25c., lb. 50c., 5 lbs. $2, 10 lbs. $3.50, 25 lbs. $8, 100 lbs. $24.

Bug Death. A powder for killing caterpillars, cutworms, slugs, etc. Very effective, but harmless to the user. Lb. 20 cts., 3 lbs. 45 cts., 5 lbs. 75 cts., 12½ lbs. $1.50, 100 lbs. $9.

Carbola. A combined disinfectant and paint or whitewash for stables, barns and kennels. Kills lice, mites, fly-eggs, etc., and is a preventive of contagious disease. One pound of Carbola is mixed with one gallon of water and will cover approximately 250 square feet of surface. 5 lbs. 75 cts., 10 lbs. $1.25, 20 lbs. $2.50, 50 lbs. $5.

Carbolineum. For hen-houses and stables. Destroys insects and harmful bacteria; removes objectionable odors. Gal. $1.50, 5 gals. $7.

Carbon Bisulphide (Ant Destroyer). Poisonous and explosive. Keep away from all flames and your nose. For ants in walks, pour a little Bisulphide on each nest; in lawns and gardens, insert the Stumpp & Walter Funnel and Skewer at intervals of 10 inches and pour a tablespoonful in each hole. Can 75 cts. Funnel and Skewer for using Carbon Bisulphide, $2.50.

Copper Solution, Ammoniated. A fungicide similar to Bordeaux Mixture; the essential ingredient, carbonate of copper, being dissolved in ammonia in this, while in bordeaux it is counteracted by lime. For late sprayings, when fruits are nearing maturity, or plants in bloom, copper solutions are usually used. Qt. $1.25, gal. $4.

Copper Sulphate (Bluestone). An ingredient in home-made Bordeaux Mixture. Also used alone for spraying. Lb. 15 cts., 5 lbs. 65 cts., 10 lbs. $1.20, 25 lbs. $2.75, 100 lbs. $10.

Cyanegg. Generates the deadly hydrocyanic acid gas, for killing white fly, etc. Lb. 60 cts., 5 lbs. $2.50.

Cyanogas. (A) **Dust.** For outside use in killing rats, moles, woodchucks, gophers, and ground squirrels. Also for white grubs and grayfish in lawns. Lb. 85 cts., 5 lbs. $3.50, 25 lbs. $12, 100 lbs. $30.

Cyanogus. (G) **Dust.** For greenhouse, mushroom, and soil fumigation. Scatter over the greenhouse walks and close the house for the night. Generates deadly hydrocyanic acid gas which is very effective in controlling aphis, thrips, white fly, and soft scale. Lb. 85 cts., 5 lbs. $3.50, 25 lbs. $12, 100 lbs. $30.

Derrisol. A non-poisonous, odorless, contact insecticide for controlling all sucking insects and some leaf-eating larvæ at the same time. It has its own spreading agent. Easy to mix and will not stain. Oz. 35 cts., ½lb. $1.20, lb. $2, 2 lbs. $3, 10 lbs. $12.

Fish-Oil Soap. For mild forms of scale; is an excellent summer spray, when something stronger cannot be used, where the San José scale exists. It is good for washing off lemon trees, oleanders and almost anything that would be infested with a soft-shelled or in fact almost any kind of insect. Lb. 25 cts., 5 lbs. $1.10, 10 lbs. $2, 25 lbs. $4, 100 lbs. $13.

Formaldehyde. Used for destroying disease germs that affect animal and plant life; also as a preventive for potato scab, onion and grain smuts. A pound to 15 gallons of water. A gallon of solution to a bushel of seed is required for treatment. Sold in 1-lb. (1 pint) bottles, 50 cts. each; 60-lb. keg, $18.

Fungicide (Zenke's). A remarkably effective remedy for mildews, blights, and other fungous diseases. ½pt. 35 cts., pt. 60 cts., qt. $1, ½gal. $1.75, gal. $3.

***Grape Dust.** For mold, mildew, or rust-mites, either in the greenhouses or open air. 5 lbs. 85 cts., 10 lbs. $1.60, 25 lbs. $3.75.

Hellebore, Powdered. Good for exterminating currant worms. ½lb. 30 cts., lb. 55 cts., 5 lbs. $2.50.

Hortex. A superior sulphur-arsenate-nicotine dust testing 2 per cent pure nicotine. This all-in-one mixture is used for the control of many fungous diseases, chewing insects, and sucking insects. Used as a dust it cannot be surpassed for general garden use. Lb. can 50 cts., 5-lb. can $2, 10-lb. can $3.50.

Kayso. A combined casein spreader and adhesive. Its use keeps spray from washing off and reduces arsenical injury. Kayso makes all spray solutions more effective. Use 1 tablespoonful Kayso to 5 gallons of solution or 1½ pounds to 200 gallons. 8-oz. can 30 cts., 2 lbs. 80 cts., 100 lbs. $30.

Kerosene Miscible Oil. Mixes easily, has great killing power, and is especially valuable against all soft-bodied insects. Can be used on practically all insects for which nicotine is employed. For woolly aphis on apple and thorn it is much more effective than nicotine. Contains 80 per cent kerosene. Dilute 1 part of Oil to 16 parts of water; tender plants 1 part to 36 parts of water. Pt. 50 cts., qt. 90 cts., gal. $2, 5 gals. $9, 50 gals. $55.

Lemon Oil. Odorless and poisonless; dilute 1 to 30 to 50 parts of water. Destroys mealy bug, scale, thrips, red spider, black and green fly, caterpillar, etc. ½pt. 45 cts., pt. 75 cts., qt. $1.25, ½gal. $2.25, gal. $3.75.

Lime-Sulphur, Bowker's Concentrated. For destroying San José scale. One gallon makes ten gallons of spray; dilute with cold water. Qt. 50 cts., 1-gal. can $1.25, 5-gal. can $4, half-barrel (about 25 gals.) $10.50, barrel (50 gals.) $15.

Lime-Sulphur, Dry. A very effective dormant spray for fruit and shade trees. Lb. 40 cts., 5 lbs. $1.75, 10 lbs. $3.25, 25 lbs. $6.

Mag-o-Tite. Insures a good crop of radishes, kale, cabbage, onions, turnips, cauliflower, etc. You can now sow any of these crops and be certain of protection against the destructive root maggot, earthworm and other pests. **Quantity required:** A 2-lb. package will cover about 300 feet of drill, mixed with the soil at planting time, with an occasional top dusting as a preventive during the growing period. For field culture the approximate quantity required is from 300 to 500 lbs. per acre. 2-lb. pkg. 40 cts., 4-lb. pkg. 70 cts., 8-lb. pkg. $1.25.

Mo Lo. Clears a lawn of moles and field-mice in a few nights. Punch a hole in the top of the run, drop in one pellet and cover lightly; repeat every 8 feet. Mo Lo is poisonous—wear gloves. Pkg. 25 cts.

Mowrah Meal. The basic material of many dry powder earthworm eradicators. 100 lbs. $4.50, 500 lbs. $16, ton $55.

REMEDIES FOR INSECTS AND FUNGUS

NOTE.—Insecticides marked can be sent by Parcel Post at purchaser's expense. Consult your local post office for rates from New York*

ALL PRICES SUBJECT TO MARKET CHANGES

Nico-Fume Liquid. This preparation is a free nicotine preparation, and is used by many of the leading growers. ¼-lb. can 75 cts., 1-lb. can $2, 4-lb. can (½gal.) $7, 8 lbs. (1 gal.) $13.

***Nico-Fume Paper.** This is a paper treated with nicotine, giving off dense fumes of strong nicotine when ignited. It is also used for tying near blooms of chrysanthemums in early fall to keep down insects. Preferred by many who do not wish to spray or vaporize. Box of 24 sheets, $1.25, box of 144 sheets $5.25, box of 288 sheets $9.50.

Nico-Fume Tobacco Powder. For fumigating the greenhouse and conservatory. Lb. $1, 5 lbs. $4, 10 lbs. $7.50.

Para-Dichlorobenzene. Highly recommended for destroying the peach borers in trees four years and older. During September a ring of the crystals is placed on the soil around the trunk and covered by mounding the earth against the tree. One ounce is sufficient for each tree. Lb. 75 cts., 5 lbs. $2.75, 10 lbs. $5.

Paris Green. ¼lb. 15c., ½lb. 30c., lb. 55c., 5 lbs. $2.50, 14 lbs. $5.

Pyrox (Bowker's). The one best and safest all-round spray which kills all leaf-eating insects and prevents blight and all fungous troubles, without injury, on fruit trees, grape-vines, currant bushes, potatoes, cantaloupes, cucumbers, and other garden vegetables, also on rose bushes, shrubbery, etc. It is a creamy paste which looks like paint and "sticks like paint." It needs only to be mixed with cold water and it is ready to apply. Lb. 50 cts., 5 lbs. $1.75, 10 lbs. $3.15, 25 lbs. $6.50, 50 lbs. $11.25, 100 lbs. $18, 300 lbs. $51.

Reade's Electric Worm Eradicator. (Liquid.) One gallon is diluted with from 200 to 250 parts of water, and the turf thoroughly drenched with the diluted liquid. Four gallons of concentrated material is the average allowance per putting-green. 5 gals. $17.50, 10 gals. $34, 50 gals. $150.

New Sprinkling Cart, Reade's. Consists of a 50-gallon barrel, mounted on wheels and with a 6-foot sprinkling boom, complete with glass measure and storage bottles. $50.

Scalecide. Used for the destruction of the San José scale. Dilute at the rate of one gallon to twenty gallons of water. Scalecide does not clog nozzles, hose or pump, and is pleasant to use. Trees may be sprayed in winter and early spring before they start to come to bud. Qt. 75 cts., gal. $1.75, 5 gals. $6.25, 10 gals. $10.60, 15 gals. $13.50, 30-gal. bbl. $26, 50-gal. bbl. $36.50.

Semesan. A Mercuric Disinfectant. As a remedy for the malignant grass disease called "Brown Patch," Semesan has been successful, spectacularly so, and is now used throughout the country, both to prevent and cure attacks of this parasite on golf-courses, turf tennis-courts, baseball diamonds, and estate lawns. 2 ozs. 50 cts., ½lb. $1.60, lb. $2.75, 5 lbs. $13, 25 lbs. $62.50, 50 lbs. $122.50.

Semesan, Jr. An equally effective form of Semesan for the dry dust disinfection of both field and sweet corn seeds against the ear, root, and stalk rots. 4 ozs. 60 cts., lb. $1.75, 5 lbs. $8, 25 lbs. $37.50.

Semesan Bel. Applied to whole or cut seed potatoes, either as a dry powder or a whitewash-like water mixture, Semesan Bel will prevent or control the common seed-borne potato diseases. 1 lb. $1.75, 5 lbs. $8, 25 lbs. $37.50.

Shoo Fly. Sprayed or swabbed onto horses and cattle in the morning, will keep flies off them during the day. Qt. 50 cts., gal. $1.35.

***Slug-Shot.** The standard remedy for currant worms, rose slugs, cabbage worms, and almost any soft-shelled insects that infest the garden. Lb. 25 cts., 5 lbs. 75 cts., 10 lbs. $1.20, 125-lb. keg $12.50.

Snarol. For control of cutworms, snails, slugs, etc. Non-injurious to vegetation and very economical to use because of its insolubility in water, thereby rendering it effective for one to three weeks. Lb. 50 cts., 3 lbs. $1, 15 lbs. $3.75, 50 lbs. $11.50.

Solomia. A powerful insecticide and fungicide for spraying. A scientific preparation for the destruction of insect pests of all kinds. Is non-poisonous and harmless to all but insect life. It can be sprayed on crops, fruit, flowers or grass without causing them the slightest harm. Qt. $1.50, gal. $4.50.

Styptic. To prevent bleeding of vines after pruning. Bottle $2.

Sulfocide. An efficient summer spray for the control of scab and black rot on fruit trees. Excellent for mildew and black rot of roses and for similar fungous troubles of other plants. For general use, dilute one gallon to 200 gallons of water. Pt. 70 cts., qt. can $1, gal. can $2.75, 5-gal. can $8.75, 10-gal. can $15, 30-gal. bbl. $39, 50-gal. bbl. $60.

***Sulphur.** Used principally in greenhouse for checking mildew. Lb. 25 cts., 5 lbs. $1, 10 lbs. $1.60, 100 lbs. $12.

Sulpho-Tobacco Soap. A combination of tobacco extract and sulphur, excellent for washing and spraying plants; dissolve in warm water. 3-oz. pkg. 15 cts., 8-oz. pkg. 25 cts., 10-lb. pkg. $3.

Sulphur Candles. For fumigating the conservatory and greenhouse; also the sick-room. 15 cts. each, $1.50 per doz.

Thrip Juice (Hammond's). Very effective against aphis, red spider, mealy bug, etc. Qt. $1.50, gal. $4.25.

***Tobacco Dust (Kilmdead).** The best of the Tobacco Dusts for dusting or fumigating. Lb. 25 cts., 5 lbs. 75 cts., 25 lbs. $2, 50 lbs. $3.50, 100 lbs. $6.

Tobacco Stems. Used for fumigating and under benches in greenhouses. Bale of 100 lbs. $4.

***Tree Tanglefoot.** A paste preparation for painting around the trunks of trees, in the form of a band. Caterpillars and other crawling pests cannot get over it. Lb. 60 cts., 5-lb. can $2.75, 10-lb. can $5.25, 25 lbs. $11.

Tree Wound Paint. Prevents decay. A residuum, penetrating, antiseptic paint that is not affected by heat, cold or moisture. Does not peel, crack or get brittle. Stops tree bleeding. Pt. 60 cts., qt. $1, gal. $3, 5 gals. $12.

Vermol. Common earthworms or "angleworms" are a decided nuisance in lawns, turf courts, and putting-greens. The casts are unsightly, impair the playing qualities of greens and add greatly to the upkeep cost, as daily sweeping and rolling become necessary. To rid greens, courts or lawns of worms, apply Vermol evenly at the rate of one-half pound to the square yard, and flood the greens immediately. If possible, the application should be made on a warm, damp day, early in May. The worms will come to the surface and die. Sold in powder form. 25 lbs. $2.25, 50 lbs. $4, 100 lbs. $6.50, 500 lbs. $30, 1,000 lbs. $57.50, ton, $110.

Volck. A spray for scale insects, mealy bugs, white flies, red spiders, rust mites, and similar insects. ½pt. 50 cts., pt. 75 cts., qt. $1, gal. $3, 5 gals. $12, 14 gals. $20, 28 gals. $34.

Wilson's O. K. Plant Spray. For roses, chrysanthemums, evergreens, and all plants affected with scale or insects, under glass or outside. *Recommended for rose bugs.* ½pt. 40 cts., qt. $1, gal. $3, 5 gals. $12, 25-gal. bbl. $50, 50-gal. bbl. $90.

X-L-ALL Liquid Insecticide. Destroys mealy-bug, scale, thrip, red spider, green and black fly, caterpillars, blight and all insect pests in the garden; it is perfectly safe to use on tender plants. For the winter dressing of vines, figs, peaches and other fruit trees, it has been proved to be the safest and most valuable preparation in the market. Leaves the foliage bright and clean and much improved in appearance. Qt. $2, ½gal. $3.75, gal. $7.

X-L-ALL Vaporizing Compound. Used very extensively abroad for vaporizing. No. 1 (sufficient for 40,000 cubic feet) $8; No. 2 (sufficient for 20,000 cubic feet) $5; No. 3 (sufficient for 10,000 cubic feet) $2.50.

Zenoleum. A coal-tar product that is a powerful disinfectant, deodorant and germ destroyer. For use in stables, poultry-houses, dog-kennels, etc. ½pt. 35 cts., qt. 75 cts., ½gal. $1.25, gal. $2, 5 gals. $9.50.

Weed Killers

Herbicide. There is nothing more annoying to the well-kept home grounds than weeds constantly coming up in the roadways, paths and gutters. This weed killer may be applied by means of a sprinkling apparatus of any kind from the small sprinkling can to the large street-sprinkling wagon. It is harmless to stone, woodwork or shoes and is perfectly odorless. One thorough application will kill all weeds as well as the roots of the same. One gallon diluted 1 part to 40 parts of water is sufficient to cover 100 to 150 square yards of space. Qt.-can, 70 cts., gal.-can $2, 5-gal. can $8, 10-gal. can $15, 30-gal. drum $33, 50-gal. bbl. $50.

Non-Poisonous Weed Killer. Kills weeds safely and economically. *Harmless* to humans and animals. Qt. 75 cts., gal. $2, 5 gals. $8, 50 gals. $50.

***Climax Lawn Sand.** A combination of carefully dried and finely ground chemicals. Destroys weeds in lawns. 3½-lb. can 65 cts., 7-lb. can $1.25, 14-lb. can $2, 28-lb. pkg. $3.75, 56-lb. pkg. $7.25.

Vaporizers

Vaporizing Lamp, Defiance. Practical and indestructible; all metal; burns kerosene; used for dispensing fumes of nicotine preparations. 75 cts. each.

X-L-ALL Vaporizing Lamp. A lamp specially designed for vaporizing of X-L-All Compound. Small size, $1.50; larger size, $1.75.

Hydrometers

For testing the specific gravity of lime-sulphur and other sprays. Price $1.25 (postpaid $1.40).

FERTILIZERS, MANURES, SOIL INGREDIENTS

When cash accompanies your order for fertilizers listed below, in lots of 100 pounds or over, we prepay freight to your station if within 100 miles of New York, except where otherwise noted

There are two secrets of soil fertility: The soil must be **correct mechanically** and **right chemically.** Correct mechanically means that it should possess the proper framework—enough clay to form a 'body,' sufficient grit to allow moisture to seep downward during rainy weather and to encourage it to work upward during dry weather by capillary action, and some remains of dead plants or humus to act as a sponge to hold moisture ready for the plant-roots to absorb it. Right chemically means that the soil contains the proper plant-foods in a condition easy for the plant to feed upon and in sufficient quantity to afford uninterrupted growth. You can make almost any soil mechanically correct and chemically right by the proper use of some of the materials listed on this and the following page.

Sawco Special Fertilizers and Plant Foods

SAWCO General Garden Fertilizer

For vegetables, flowers, and fruit. Recommended strongly as the best for all-round work in the garden. Use it at the rate of 1,000 pounds to the acre, or 3 ounces to the square yard when preparing land for planting in the spring. Good practice, too, is to spread General Garden Fertilizer between the rows of plants when they are growing and then to hoe it into the soil; use about 3 pounds per 100 running feet for this, repeating every month. When planting beans, cucumbers, etc., in hills, a handful worked into the soil under the hill will be a great help, and the same thing may be done when planting tomatoes, cabbages, peppers, dahlias, peonies, etc. The soil immediately around roses, shrubs, and trees may be whitened with General Garden Fertilizer and then raked. Before sowing seeds in rows a little General Garden Fertilizer may be placed in the drill and the soil stirred to mix it thoroughly. 5 lbs. 50 cts., 10 lbs. 90 cts., 25 lbs. $1.75, 50 lbs. $3.25, 100 lbs. $5.50, 500 lbs. $22, ton $75.

SAWCO Bone Fertilizer

Mixed Fine and Coarse. (For general use.) This grade is recommended for the garden and for lawns. It is quick to give results, yet the benefits are lasting. The standard food for roses; much used on hay and pasture fields. Use 1,500 pounds per acre or 5 ounces to the square yard, dug or raked into the soil; use one-half this rate when top-dressing grass. 5 lbs. 50 cts., 10 lbs. 90 cts., 25 lbs. $1.75, 50 lbs. $3, 100 lbs. $5, 500 lbs. $19, ton $65.

BONE, VINEYARD. These large particles of bone are much used for trees and vines. 100 lbs. $5.50, 500 lbs. $25, ton $85.

SAWCO Sheep Manure

A convenient substitute for stable manure on small areas. Consists of sheep-droppings that have been heated to a high temperature, expelling moisture and destroying weed seeds. Highly recommended for vegetables, flowers and lawns. 5 lbs. 50 cts., 10 lbs. 90 cts., 25 lbs. $1.50, 50 lbs. $2.75, 100 lbs. $5, 500 lbs. $20, ton $70.

SAWCO Emerald Grass Fertilizer

For lawns and golf putting-greens. A well-balanced formula, designed to feed only the finer grasses and to keep them in a healthy condition. When building a lawn, from ½ ton to 1 ton per acre (3 to 6 ounces to the square yard) should be harrowed or raked into the upper surface. Every spring and early autumn existing lawns may be given a dressing of 500 to 1,000 pounds per acre (1½ to 3 ounces to the square yard); when applied as a top-dressing to turf, it is best to mix the Emerald Grass Fertilizer with four times its bulk of fine soil or sand before broadcasting. 5 lbs. 50 cts., 10 lbs. 90 cts., 25 lbs. $1.75, 50 lbs. $3.25, 100 lbs. $5.50, 500 lbs. $22, ton $75.

SAWCO Corn Fertilizer

An excellent all-round dressing for this crop, with a well-balanced formula specially worked out for the requirements of corn. Apply ½ ton per acre (3 ounces to the square yard) before seeding and harrow in. Dust Corn Fertilizer between the rows during the summer and then hoe it into the soil; 5 pounds per 100 running feet may be allowed for this. 5 lbs. 50c., 10 lbs. 90c., 25 lbs. $1.75, 50 lbs. $2.75, 100 lbs. $4.50, 500 lbs. $18, ton $65.

SAWCO Potato Fertilizer

Unequaled for potatoes, and, in fact, all vegetables grown for their fleshy roots, such as beets, carrots, etc. Apply 1,000 pounds to the acre (3 ounces per square yard) when preparing the land; some growers mix thoroughly a handful with the soil immediately under each tuber when planting. During growth some Potato Fertilizer may be scattered on the soil between the rows and hoed in. 5 lbs. 50 cts., 10 lbs. 90 cts., 25 lbs. $1.75, 50 lbs. $3, 100 lbs. $5, 500 lbs. $20, ton $70.

SAWCO GARDEN AND TREE PLANT FOOD. A highly concentrated balanced fertilizer for house plants, small gardens and shrubs. Ideal plant food for shade and ornamental trees. Full instructions for application on package. Lb. 35 cts., 5 lbs. $1.25, 10 lbs. $2.

GENERAL LIST OF FERTILIZERS

Adco. A culture of bacteria associated with the breaking down of organic materials. Add it to garden rubbish, leaves and grass clippings to hasten decay and quickly produce manure. 25 lbs. $2.25, 150 lbs. $10.50.

Aluminum Sulphate. Makes soil acid, and for this purpose is much used in the culture of rhododendrons and similar plants. 5 lbs. 75 cts., 10 lbs. $1.25, 25 lbs. $2.50, 100 lbs. $7.50.

Ammo-Phos (Phosphate of Ammonia). Applies nitrogen, and therefore stimulates leaf-growth; supplies also phosphoric acid. For lawns, vegetables, and flowers. Use from 250 to 750 pounds per acre or ¾ to 2½ ounces to the square yard. Employ only the smaller quantity on lawns, and then mix it with four times its bulk of soil or sand, otherwise it will scorch badly. 100 lbs. $6.50, 500 lbs. $27, ton $100.

Ashes, Canada Hardwood. These furnish potash. One to two tons per acre may be harrowed into land in winter, early spring, or fall. May be broadcast between rows of corn, potatoes, beets, carrots, etc., at the rate of 10 pounds per 100 running feet. Bbl. (about 200 lbs.) $5, ton $40.

Acid or Rock Phosphate. Adds phosphoric acid and a small quantity of lime. From 750 to 1,500 pounds may be applied to an acre of plowed land, or it may be used as a top-dressing for lawns, golf fairways, etc. 100 lbs. $2, ton $27.50.

Basic Slag. A slow-acting fertilizer, the effect of which is spread over several seasons; contributes phosphoric acid and lime to the soil. As a winter and early spring dressing is excellent for hay and pasture fields, alfalfa, clovers, grain, etc., use 1,000 to 2,000 pounds per acre. 50 lbs. $2, 100 lbs. $3.75, 500 lbs. $17, ton $60.

Blood, Dried. Adds nitrogen and a small amount of phosphoric acid and lime; much used for greenhouse plants, carnations, roses, and the like. Acts quickly. 5 lbs. 75 cts., 10 lbs. $1.25, 25 lbs. $2.25. 50 lbs. $3.75, 100 lbs. $6, 500 lbs. $27.50, ton $100.

Blood and Bone (Tankage). Similar in general effect to bone-meal, yielding lime and phosphoric acid. Used largely by the greenhouse man, and is excellent for grapevines. Allow 3 ounces per square yard (1,000 pounds to the acre) and rake in. 100 lbs. $4.50, 500 lbs. $22.50, ton $80.

Cattle or Cow Manure, Shredded. For all crops, especially those in hot, sandy soils. About 400 pounds of the concentrated material may be considered as equal in value to one ton of fresh cow-manure. Use from 1 to 3 tons to the acre; 6 to 20 ounces per square yard. 100 lbs. $5.50, 500 lbs. $20, ton $70.

GENERAL LIST OF FERTILIZERS

Charcoal. Sweetens and lightens sour and heavy soils; helps to dry out wet land. Frequently used for lawns on soils of this character. 50 lbs. $2.50, 100 lbs. $4.50, 500 lbs. $20, ton $65.

Clay's Fertilizer. Has a splendid reputation for flowers, vegetables, and fruit. Generations of gardeners have used it successfully for exhibition growing. Two to 4 ounces to the square yard, raked into the soil around the plants. 14 lbs. $2.25, 28 lbs. $4, 56 lbs. $7, 112 lbs. $12.

Cottonseed Meal. Rich in nitrogen and potash; suitable for grain crops, but most largely used on lawns. Use ¾ to 1½ tons per acre. 100 lbs. $4.50, 500 lbs. $20, ton $65.

Cow Manure. From 25 to 40 tons per acre may be plowed under or may be used with advantage in the compost for top-dressing turf. In car lots only, $7 per ton.

Floranid (Urea). The most highly concentrated nitrogenous fertilizer in commerce, contains 46 per cent of available nitrogen, and leaves no harmful residue in the soil. A quick-acting stimulant for lawns, vegetables, fruits, and flowers. Allow 2 ounces per square yard in the garden, ½ ounce per square yard on the lawn; in the latter case it must be mixed with four times its bulk of fine soil or sand. Lb. 50 cts., 5 lbs. $1.50, 10 lbs. $2.50, 25 lbs. $5.

Gypsum or Land Plaster. Widely used as a dusting for the manure pile to fix and hold nitrogen. When applied to land it furnishes lime without giving the soil an alkaline reaction. From one to three tons per acre may be given. 100 lbs. $2.50, 500 lbs. $10.

Horse-Manure. May be regarded almost as a necessity for all crops. We quote on car lots only (minimum car 40 tons) $7 per ton, f.o.b. shipping point.

Humus. Furnishes but little plant-food; highly valuable, however, as a soil ingredient, improving its texture and increasing its water-holding properties. May be used freely. 100 lbs. will cover 80 square feet 1 inch deep. Shipped in bags, bag (100 lbs.) $2.50, 5 bags (500 lbs.) $10, 20 bags (1 ton) $35, f.o.b. New York. In bulk in carload lots, minimum 20 tons, $8 per ton, f.o.b. plant. We stock Humus in our New York store in boxes as follows: 10 lbs. 75 cts., 50 lbs. $2, 100-lb. box $3.50, 500 lbs. in boxes $15, ton in boxes $45.

Lawn Sand, Climax. Imported. A concentrated fertilizer used for killing certain weeds in lawns, especially chickweed and mouse-ear. Applied thickly to weed patches, or generally over the grass at the rate of 6 ounces to the square yard. 3½-lb. can 65 cts., 7-lb. can $1.25, 14-lb. can $2, 28-lb. pkg. $3.75, 56-lb. keg $7.25.

Lime, Agricultural Hydrated. Corrects acid conditions of the soil, and at the same time is a plant-food; further, it liberates other foods in the soil. Binds loose soils and, curiously enough, opens heavy land. Quick acting. Use from 1 to 3 tons per acre; 6 to 18 ounces to the square yard. As a winter dressing to sweeten lawns, broadcast 1 ton to the acre or 6 ounces per square yard. 5 lbs. 35 cts., 10 lbs. 60 cts., 25 lbs. $1.25, 100 lbs. $2.75, 500 lbs. $9.50, ton $30.

Limestone, Pulverized. Slower to act than Hydrated Lime but the effect is felt over a longer period. Use from 2 to 4 tons per acre. 100 lbs. $1.50, 500 lbs. $6, ton. $17.50. Specially favorable rates in carload lots.

Muriate of Potash. Excellent for potatoes, corn, grains, etc. Use from 350 to 750 pounds per acre. 5 lbs. 75 cts., 10 lbs. $1.25, 25 lbs. $2, 100 lbs. $6.

Mushroom Soil. Stable manure and fine loam, which together have produced a crop of mushrooms and are partly rotted. Offered in car lots at $5 per ton, purchaser paying freight from shipping point. Minimum car, 30 tons.

Nitrate of Soda. A plant stimulant. Adds nitrogen in a form which is immediately available to the plants. Forces a heavy, succulent growth in lettuce and similar leaf vegetables. Gives a jump to lawns, and, in fact, to all crops. Use it sparingly and with great care; not more than 1½ ounces per square yard, or 500 pounds to the acre, raked or harrowed in. Give at one-half this rate to lawns, but first mix with four times its bulk of fine soil or sand. As a liquid fertilizer one ounce may be dissolved in one gallon of water. Lb. 25 cts., 5 lbs. 75 cts., 10 lbs. $1.25, 25 lbs. $2, 50 lbs. $3.75, 100 lbs. $6, 500 lbs. $25, ton $80.

Oyama Plant Food. A Japanese fertilizer. For house plants, vegetables, and flowers. Consists of chemicals in crystal form which dissolve in water and are speedily available to the plant. Use in accordance with directions on the packages. House size 35 cts., postpaid 45 cts.; garden size $1.20, postpaid $1.35.

Pulverized Poultry Manure. An excellent fertilizer, rich in plant-food, for all garden crops, flowers, and lawns. Dig in 3 to 16 ounces per square yard, or ½ to 2½ tons to the acre. Mix freely with soil or sand when applying to lawns and then only use very little. 100 lbs. $4.50, 500 lbs. $17, ton $60.

Salt, Agricultural. Occasionally used as a top-dressing for asparagus. Also effective as a weed-killer on roadways, paths, etc. 100 lbs. $2.25, 500 lbs. $10, ton $35.

Scotch Soot. A valuable plant-food. On grass, or dusted around vegetables or on the plants themselves, it discourages caterpillars, slugs, grubs, wireworms, cutworms and earthworms. 112-lb. bag $7, 5 bags $30, ton $100.

Stim-U-plant. Fertilizer in tablets. These may be placed in the soil around plants, in flower pots, or dissolved in water for a liquid fertilizer. 30 tablets 25 cts., postpaid 30 cts.; 100 tablets 75 cts., postpaid 85 cts.; 1,000 tablets $3.50, postpaid $3.65.

Sulphate of Ammonia. A nitrogenous plant stimulant, very quick in action, tending to make soil acid. Increases leaf-growth. Much used on lawns, which it not only feeds, but weeds are discouraged; when top-dressing lawns apply 1 ounce per square yard or 350 pounds to the acre, but first mix with several times its bulk of soil or sand. Between rows of spinach, lettuce, cabbage, etc., 3 pounds to 100 running feet may be broadcast and hoed in. As a liquid stimulant dissolve 1 ounce in a gallon of water and apply to the roots of plants. 5 lbs. 75 cts., 10 lbs. $1.25, 25 lbs. $2.50, 50 lbs. $4, 100 lbs. $7.

Tobacco Fertilizer. For lawns, vegetables, and farm crops. In addition to its value as a fertilizer, it discourages many soil-pests, such as beetles, ants, cutworms and snails. A slow-acting fertilizer, rich in potash. Use from 2½ to 3½ tons per acre, 1 to 1½ lbs. to the square yard. 100 lbs. $4, 500 lbs. $17, ton $60.

Tobacco Stems. Placed around the roots of roses and other plants; occasionally recommended as a dressing for grass over winter. Feeds the plants, protects against cold, retains moisture, deters insects. Use from 2½ to 3½ tons per acre; 1 to 1½ pounds to the square yard. 100 lbs. $4, 500 lbs. $16, ton $50.

Thomson's Special Flower, Vegetable and Vine Manure. Imported. An excellent all-round fertilizer that is a great favorite with the private gardener. 14 lbs. $1.75, 28 lbs. $3, 56 lbs. $5.50, 112 lbs. $10.

Nitrogen-Fixing Bacteria for All Leguminous Plants

FARMOGERM

Small Garden Unit. A composite culture of the bacteria essential for the growth of Peas, Beans, and Sweet Peas. Unit 25 cts., postpaid 35 cts.

Large Seed Units. Culture of bacteria for Garden Peas, Beans, Sweet Peas, Peanuts, Vetches, and Field Peas. ½-bus. size 35 cts., bus. 60 cts., 5-bus. size $2.25. When ordering, state the crop for which Farmogerm is required.

Clover Units. Culture of bacteria necessary for the growth of Alfalfa and all Clovers. Sufficient to treat ¼ bus. of seed 35 cts., ½-bus. size 60 cts., bus. size $1, 2½-bus. size $2.25. Full directions for developing the bacteria and applying them to the seeds will be found on the package. When ordering state the clover for which Farmogerm is required.

Leaf-Mould, Moss and Peat

Leaf-Mould. Used for preparing rhododendron beds and as an ingredient in potting soil. Bag $2.50.

Moss, Live Green Sphagnum. Freshly gathered in season. For orchid-growing, for mulching pots and greenhouse benches and for dozens of other uses. Bag, $4.

Moss, Sheet, Natural Green. For covering pots or tubs, for decorating the conservatory, rock-garden, etc. Bags (10 lbs.) $5.

Moss, Dry Sphagnum. For wrapping around plant roots, orchid-growing, covering conservatory soil, etc. Large bale, $4.

Peat Fiber. A vegetable product which remains in the soil for many years without decaying; in the meanwhile it absorbs moisture and holds it for the plants. Its presence in the top layer of a lawn adds materially to the resilient carpet-like feel of good turf. As a mulch around the roots of plants it is excellent. May be used freely. Small bale $1.50, large bale $6.

Peat, Osmundi. For orchid-growing. Bbl. $5.

Peat, Rotted Fibrous. Excellent for mixing with soil for heaths and other plants. Well decayed. Bag $2.50.

Potting Soil. A fine mixture of loam, leaf-mold, and sand. Suitable for house plants, ferns, etc.; excellent for growing bulbs. Pk. $1, bus. $2.50.

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SPECIAL ORDER SHEET for Colored Illustrations—Spring Catalogue, 1928

We, Stumpp & Walter Co., give no warranty, express, or implied, as to description, quality, productiveness, or any other matter of any seeds, bulbs, or plants we send out, and will not be responsible for the crop.

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SPECIAL COLLECTION OFFERINGS—Flower Seed, Cannas, Gladiolus and Dahlias

We have enumerated below various varieties of Flower Seed, Cannas, Gladiolus, and Dahlias which we have illustrated in color in our catalogue this year. Our idea in doing this on a separate order sheet is to make it easier for you to order them.

Quantity	ANNUAL FLOWER SEED	Price	Quantity	ANNUAL FLOWER SEED	Price
	ANTIRRHINUM (Snapdragon.) See page 65.			**Carnations,** continued	
.....	Carmine Queen		.....	Red King	
.....	Mont Blanc			PRICES: Pkt. 25 cts., ¼oz. $2.	
.....	The Fawn		.....	COLLECTION OFFER: 1 pkt. each of the above 6 Kings, $1.	
.....	Golden Queen			**MIDSEASON GIANT ASTERS** See page 72.	
.....	Apricot Queen		.....	Light Blue Giant	
.....	Firebrand		.....	Peach Blossom Giant	
	PRICES: Pkt. 15 cts., ¼oz. 75 cts.		.....	White Giant	
.....	COLLECTION OFFER: 1 pkt. each 6 varieties, 75 cts.		.....	Rich Rose Giant	
	SWEET PEAS (12 Distinct Colors.) See page 66.		.....	Light Purple Giant	
.....	Scarlet		.....	Dark Purple Giant	
.....	White			PRICES: Pkt. 25 cts., ¼oz. $1.50.	
.....	Bright Blue		.....	COLLECTION OFFER: 1 pkt. each of the above 6 Midseason Giants, $1.	
.....	Carmine			**CALLIOPSIS** See page 77.	
.....	Cream		.....	Golden Wave	
.....	Lavender		.....	Crimson King	
.....	Navy Blue		.....	Marmorata	
.....	Light Pink		.....	Tiger Star	
.....	Cream-Pink		.....	Nigra Speciosa	
.....	Maroon		.....	Bicolor Nana	
.....	Purple			PRICES: Pkt. 10 cts., ¼oz. 50 cts., oz. $1.50.	
.....	Salmon-Pink			COLLECTION OFFER: 1 pkt. each 6 varieties, 50 cts.; ¼oz. each 6 varieties, $2.50.	
	PRICES: Pkt. 15 cts., oz. 50 cts.			**DOUBLE CORNFLOWERS** (Giant Bachelors' Button.) See page 78.	
.....	COLLECTION OFFER: 1 pkt. each 12 distinct colors, $1; 1 oz. each 12 distinct colors, $5.		.....	Double Blue (Bluebottle)	
	CARNATIONS (Sweet-scented.) See page 71.		.....	Double Rose-Pink	
.....	Maroon King		.....	Double Mauve	
.....	Rose King		.....	Double White	
.....	Pink King		.....	Double Rosy Red	
.....	White King				
.....	Yellow King				

Quantity	ANNUAL FLOWER SEED	Price	
	Double Cornflowers, continued		
.....	Double Maroon		
	PRICES: Pkt. 10 cts., ¼oz. 30 cts., oz. 75 cts.		
.....	COLLECTION OFFER: 1 pkt. each of the above 6 colors, 50 cts.		
	MAMMOTH-FLOWERED CANDYTUFT See page 87.		
.....	Carmine		
.....	Flesh-Pink		
.....	Rose-Cardinal		
.....	White		
.....	Lavender		
.....	Crimson		
	PRICES: Pkt. 15c., ¼oz. 50c., oz. $1.50.		
.....	COLLECTION OFFER: 1 pkt. each of 6 colors, 75 cts.		
	GOLD MEDAL DELPHINIUMS (Hardy Larkspur.) See page 88. Pkt. 25 cts., ⅛oz. $2.		
	ANNUAL LARKSPUR See page 97.		
.....	Attraction		
.....	Defiance		
.....	Exquisite		
.....	King of the Blues		
.....	Lilac Perfection		
.....	Loveliness		
.....	Snowstorm		
.....	Stella		
.....	Tricolor		
.....	Violet Queen		
	PRICES: Pkt. 15 cts., ¼oz. 50 cts., oz. $1.50.		
.....	COLLECTION OFFER: 1 pkt. each 10 varieties, $1; ¼oz. each 10 varieties, $4.		
	MARIGOLD (French and African.) See page 98.		
.....	Dwarf French, Little Brownie		
.....	Dwarf French, Golden Ball		
.....	Dwarf French, Lemon Ball		
.....	Dwarf French, Mahogany		
.....	Giant Show African, Lemon		
.....	Giant Show African, Orange		
	PRICES: Pkt. 25 cts., ¼oz. $1.		
.....	COLLECTION OFFER: 1 pkt. each 6 varieties, $1; ¼oz. each 6 varieties, $5.		
	NEW SALPIGLOSSIS (Painted Tongue.) See page 107.		
.....	Scarlet and Gold		
.....	Light Blue and Gold		
.....	Rose and Gold		
.....	Primrose		
.....	Crimson		
.....	Purple and Gold		
.....	Velvety Violet		
.....	Brown and Gold		
	PRICES: Pkt. 15c., ¼oz. 75c., oz. $2.50.		
.....	COLLECTION: 1 pkt. each of 8 colors, $1.		
	SCABIOSA See page 108.		
.....	Azure Fairy		
.....	Shell-Pink		
.....	Crimson		

Quantity	ANNUAL FLOWER SEED	Price
	Scabiosa, continued	
.....	White	
.....	Rose	
.....	King of the Blacks	
	PRICES: Pkt. 10c., ¼oz. 50c., oz. $1.50.	
.....	COLLECTION OFFER: 1 pkt. each 6 varieties, 50c.; ¼oz. each, $2.50.	
	DAHLIA-FLOWERED ZINNIAS See page 117.	
.....	Buttercup	
.....	Scarlet Flame	
.....	Exquisite	
.....	Oriole	
.....	Dream	
.....	Crimson Monarch	
	PRICES: Pkt. 25c., ¼oz. $1.50, oz. $5.	
.....	COLLECTION OFFER: 1 pkt. each of 6 colors, $1.	
	CANNAS See page 118.	
.....	The President. *Scarlet*	
.....	Hungaria. *Pink*	
.....	Richard Wallace. *Yellow*	
	PRICES: Roots 20 cts. each, $2 per doz., $15 per 100.	
.....	COLLECTION OFFER: 1 root each 3 varieties, 50 cts.; 6 roots each, $2.50.	

GLADIOLUS See page 127.

Mrs. Dr. Norton	Each $0 20	Doz. $2 00	100 $15 00
Maine	25	2 50	20 00
Rose Ash	20	2 00	15 00
Golden Measure	35	3 50	25 00
Crimson Glow	20	2 00	15 00

SPECIAL OFFER: 5 bulbs each, 5 varieties $5; 10 bulbs each, 5 varieties $9; 20 bulbs each, 5 varieties $17.

GLADIOLUS See page 128.

	Each	Doz.	100
Alice Tiplady	$0 15	$1 50	$10 00
Halley	10	75	5 00
Schwaben	15	1 25	8 00
Peace	10	1 00	7 50
Mrs. F. Pendleton	15	1 25	8 00
Baron Hulot	15	1 50	10 00

SPECIAL OFFER: 5 bulbs each, 6 varieties $3; 10 bulbs each, 6 varieties $5.50; 20 bulbs each 6 varieties $10.

FOUR FINE NEW EXHIBITION DAHLIAS See page 133.

	Each	Doz.
Sagamore	$2 00	$20 00
Oyster Bay Beauty	3 50	35 00
Trentonian	2 00	20 00
Ellinor Vanderveer	2 50	25 00

COLLECTION OFFER: 1 tuber each, 4 Fine New Exhibition Dahlias $8; two tubers each, $15.

FOUR FINE EXHIBITION DAHLIAS See page 134.

	Each	Doz.
Jersey's Beacon	$2 50	$25 00
Viola Phillips	1 50	15 00
Grace Sperling	1 50	15 00
Robert Treat	2 00	20 00

COLLECTION OFFER: 1 tuber each, 4 Fine Exhibition Dahlias $6; 2 tubers each, $10.

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State if wanted by Mail, Express or Freight

*Superintendent or Gardener*_____
That we may enter for Catalogues

Please use Pink Order Sheet for Roses and other plants listed on pages 139 to 154 inclusive.

QUANTITY	ARTICLES WANTED	PRICE	

QUANTITY	ARTICLES WANTED	PRICE	

SPECIAL ORDER SHEET

Roses, and other Plants listed on pages 139 to 154 incl.—Spring Catalogue, 1928

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*Send by*_____
State if wanted by Mail, Express or Freight

*Superintendent or Gardener*_____
That we may enter for Catalogues

SPECIAL ORDER SHEET

ROSES, IRIS, PEONIES, PHLOX, TRITOMA, CLIMBING PLANTS, SHRUBS, GRAPE-VINES, CURRANTS, GOOSEBERRIES, RASPBERRIES, FRUIT TREES

As the season for shipping to you the items listed above is frequently different from the time to ship seeds and bulbs, we ask our patrons to use this order sheet. We will be able to give you better service on your order if you do.

Quantity		Price	Quantity		Price
	EVERBLOOMING ROSES (See pages 139, 140.)			**Hybrid Tea Roses,** continued	
	5 EVERBLOOMING ROSES: A		.....	Etoile de France	
.....	Duchess of Wellington		.....	Francis Scott Key	
.....	Radiance		.....	General MacArthur	
.....	Kaiserin Augusta Victoria		.....	Golden Emblem	
.....	Columbia		.....	Golden Ophelia	
.....	Hadley		.....	Gorgeous	
.....	COLLECTION OFFER: One plant each of 5 varieties, $4.		.....	Gruss an Teplitz	
	5 EVERBLOOMING ROSES: B		.....	Hadley	
.....	Ophelia		.....	Jonkheer J. L. Mock	
.....	Los Angeles		.....	Juliet	
.....	Mrs. Aaron Ward		.....	Killarney Brilliant	
.....	Mme. Caroline Testout		.....	Kaiserin Augusta Victoria	
.....	Red Radiance		.....	Lady Alice Stanley	
.....	COLLECTION OFFER: One plant each of 5 varieties, $4.		.....	Lady Ashtown	
	HYBRID TEA ROSES (See pages 141, 142.)		.....	Laurent Carle	
.....	Betty		.....	Los Angeles	
.....	Cheerful		.....	Louise Catherine Breslau	
.....	Columbia		.....	Miss Lolita Armour	
.....	Constance		.....	Mme. Butterfly	
.....	Dean Hole		.....	Mme. Caroline Testout	
.....	Double White Killarney		.....	Mme. Edouard Herriot	
.....	Duchess of Wellington		.....	Mrs. A. R. Waddell	
.....	Eldorado		.....	Mrs. Aaron Ward	
			.....	Mrs. Calvin Coolidge	
			.....	Mrs. S. K. Rindge	

Quantity		Price
	Hybrid Tea Roses, continued	
.....	Ophelia	
.....	Premier	
.....	Radiance	
.....	Red Radiance	
.....	Rose Marie	
.....	Souvenir de Claudius Pernet	
.....	Souvenir de Georges Pernet	
.....	Sunburst	
.....	Willowmere	
	HYBRID PERPETUAL ROSES (See page 143.)	
.....	Frau Karl Druschki	
.....	General Jacqueminot	
.....	Georg Arends	
.....	Heinrich Munch	
.....	Magna Charta	
.....	Paul Neyron	
.....	Soleil d'Or	
.....	Ulrich Brunner	
	CLIMBING AND RAMBLER ROSES (See page 143.)	
.....	American Pillar	
.....	Climbing American Beauty	
.....	Dorothy Perkins	
.....	Christine Wright	
.....	Dr. W. Van Fleet	
.....	Emily Gray	
.....	Excelsa	
.....	Gardenia	
.....	Mary Wallace	
.....	Paul's Scarlet Climber	
.....	Silver Moon	
.....	Tausendschon	
.....	White Dorothy	
	MISCELLANEOUS ROSES (See page 144.)	
.....	F. J. Grootendorst	
.....	Hugonis	
	BABY RAMBLER or POLYANTHA ROSES (See page 144.)	
.....	Cecile Brunner	
.....	Orleans	
.....	Ellen Poulsen	
.....	Miss Edith Cavell	
.....	Mrs. W. H. Cutbush	
	MOSS ROSES (See page 144.)	
.....	Blanche Moreau	
.....	Crested Moss	
.....	Henri Martin	
.....	Princesse Adelaide	
	GERMAN IRIS (See page 145.)	
.....	Aurea	
.....	Fairy	
.....	Gracchus	
.....	Khedive	
.....	Lent A. Williamson	
.....	Mother of Pearl	

Quantity		Price
	German Iris, continued	
.....	Pallida, Albert Victor	
.....	Pauline	
.....	Perfection	
.....	Princess Victoria Louise	
.....	Quaker Lady	
.....	Queen Alexandra	
.....	Rhein Nixe	
.....	Siberian Blue	
	JAPANESE IRIS (See page 145.)	
.....	Azure	
.....	Choseidan	
.....	Gold Bound	
.....	Grace Sperling	
.....	Kamata	
.....	La Favorite	
.....	Mrs. George Stumpp	
.....	Painted Lady	
.....	Red Riding Hood	
.....	Rose-Anna	
.....	Templeton	
.....	Violet Beauty	
	PEONIES (See page 146.)	
.....	Comte de Diesbach	
.....	Couronne d'Or	
.....	Duchess de Nemours	
.....	Duke of Wellington	
.....	Edulis Superba	
.....	Felix Crousse	
.....	Festiva Maxima	
.....	Floral Treasure	
.....	Francois Ortegot	
.....	La Sublime	
.....	La Tulipe	
.....	Lady Bramwell	
.....	Louis Van Houtte	
.....	Mme. Crousse	
.....	Mons. Jules Elie	
.....	Prince Imperial	
.....	Queen Victoria	
.....	Richardson's Dorchester	
.....	Richardson's Grandiflora	
.....	Rosa Superba	
	HARDY PHLOX (See page 147.)	
.....	Albion	
.....	Australia	
.....	Bridesmaid	
.....	Elizabeth Campbell	
.....	La Vague	
.....	Obergartner Richenau	
.....	Rynstroom	
.....	Rhinelander	
.....	Selma	
.....	Vesuvius	
.....	Wanadis	
.....	Wida	
.....	Miss Lingard	

Quantity		Price	
	TRITOMA (*Red-Hot Poker Plant*) (See page 147.)		
	Pfitzeri		
	HARDY CLIMBING PLANTS (See page 148.)		
	AKEBIA		
	quinata		
	AMPELOPSIS		
	Veitchii		
	Quinquefolia		
	ARISTOLOCHIA (*Dutchman's Pipe Vine*)		
	Sipho		
	BIGNONIA (*Scarlet Trumpet Vine*)		
	Radicans		
	CELASTRUS (*Bittersweet; Waxwork*)		
	Scandens		
	CLEMATIS		
	Paniculata		
	Jackmanii		
	Henryi		
	Ville de Lyon		
	EUONYMUS		
	Radicans		
	Radicans vegeta		
	HONEYSUCKLE		
	Halliana		
	Scarlet Trumpet		
	POLYGONUM (*Silver Lace Vine*)		
	Auberti		
	WISTERIA		
	Sinensis, Blue		
	Sinensis, White		
	FLOWERING SHRUBS (See page 149.)		
	ABELIA		
	Grandiflora		
	ALMOND (*Amygdalus*)		
	Pink		
	White		
	ALTHEA (*Rose of Sharon*)		
	Red		
	Pink		
	White		
	Purple		
	AZALEA		
	Hinodegiri		
	BUDDLEIA (*Butterfly Shrub*)		
	Variabilis Veitchiana		
	CALYCANTHUS (*Sweet* or *Strawberry Shrub*)		
	Floridus		
	DEUTZIA		
	Gracilis		
	Pride of Rochester		
	DOGWOOD (Cornus)		
	Sibirica		

Quantity		Price	
	EUONYMUS (*Corkbark*)		
	Alatus		
	EXOCHORDA (*Pearl Bush*) (See page 150.)		
	Grandiflora		
	FORSYTHIA		
	Suspensa		
	Viridissima		
	HONEYSUCKLE (Bush)		
	Tatarica		
	Tatarica alba		
	HYDRANGEA		
	Arborescens grandiflora		
	Paniculata grandiflora		
	KERRIA (Corchorus)		
	Japonica		
	PHILADELPHUS (*Mock Orange*)		
	Coronarius		
	Coronarius foliis aureis		
	PRUNUS (*Flowering Plum*)		
	Pissardii		
	Triloba		
	PYRUS (*Japan Quince*)		
	Japonicus		
	SPIRÆA		
	Anthony Waterer		
	Van Houttei		
	SYMPHORICARPOS		
	Racemosus (*Snowberry*)		
	Vulgaris (*Indian Currant*)		
	SYRINGA (or Lilac) (See page 151.)		
	Common Purple		
	Common White		
	TAMARIX		
	Africana		
	VIBURNUM		
	Plicatum (*Japan Snowball*)		
	Opulus (*High-Bush Cranberry*)		
	WEIGELA		
	Eva Rathke		
	Rosea		
	RHODODENDRONS		
	Amphion		
	Catawbiense album		
	Charles Dickens		
	Mrs. C. S. Sargent		
	HEDGE PLANTS (See page 151.)		
	BERBERIS THUNBERGII (*Japan Barberry*)		
	Extra strong. 1½ to 2 feet		
	CALIFORNIA PRIVET		
	Extra strong. 2 feet		

Remainder of this order sheet please note for pages 152—154

GRAPE-VINES, CURRANTS, GOOSEBERRIES, BLACKBERRIES, RASPBERRIES, FRUIT TREES

QUANTITY	ARTICLES WANTED	PRICE	

BOOKS on Horticulture, Agriculture and Kindred Subjects

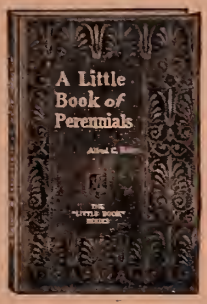
BOOKS MAILED FREE OF CHARGE AT PRICES GIVEN

This list embraces only a select portion of the most popular horticultural and agricultural books published. Any book not included in this list we will be glad to supply at the regular price. We invite correspondence concerning these or any other books in which you may be interested.

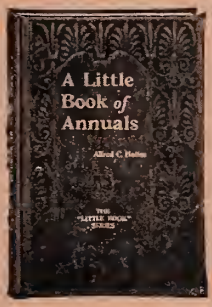
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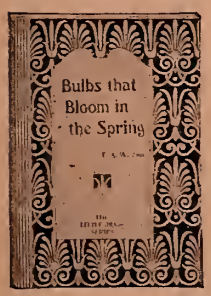
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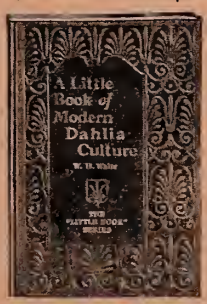
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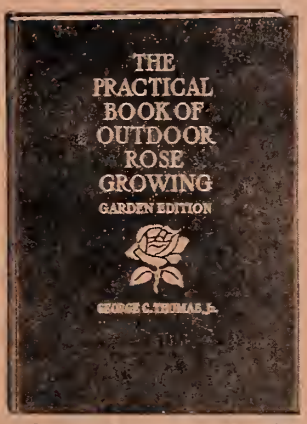
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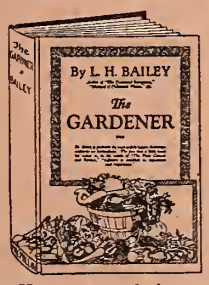
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